OPERATION AND PARTS MANUAL

MULTIQUIP

Mikasa SERIES

MODEL MT-76D

TAMPING RAMMER

(YANMAR L-40ADRM DIESEL ENGINE)

Revision #6 (03/01/07)

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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

⚠ WARNING ⚠

CALIFORNIA — Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

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NOTE

Specification and part number are subject to change without notice.

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MULTIQUIP

CAUTION:

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating the MT-76D Tamping Rammer:

GENERAL SAFETY

■ **DO NOT** operate or service this equipment before reading this entire manual.

■ This equipment should not be operated by persons under 18 years of age.

■ **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.

■ **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.

■ **NEVER** operate this equipment under the influence or drugs or alcohol.

■ **NEVER** use accessories or attachments, which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.

■ Manufacture does not assume responsibility for any accident due to equipment modifications.

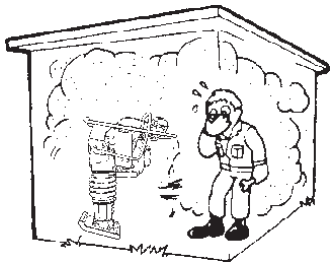
■ Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.

■ Always check the machine for loosened threads or bolts before starting.

■ **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or rammer.

■ **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with *hot* components can cause serious burns.

■ The engine section of this rammer requires an adequate free flow of cooling air. Never operate the rammer in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the rammer or engine and may cause injury to people. Remember the rammer's engine gives off DEADLY carbon monoxide gas.



■ Always refuel in a well-ventilated area, away from sparks and open flames.

■ Always use extreme caution when working with **flammable** liquids. When refueling, **stop the** engine and allow it to cool. **DO NOT** smoke around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.

■ **NEVER** operate the rammer in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe *bodily harm or even death.*

■ Topping-off to filler port is dangerous, as it tends to spill fuel.

- **NEVER** Run engine without air filter. Severe engine may occur.
- Always service air cleaner frequently to prevent carburetor malfunction.
- Always be sure the operator is familiar with proper safety precautions and operations techniques before using rammer.
- Always store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- **NEVER** use accessories or attachments, which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- **NEVER** Run engine without air cleaner. Severe engine damage may occur.
- Always read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.
- Always be sure the operator is familiar with proper safety precautions and operations techniques before using pump.
- Always store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- Refer to the ***ROBIN Engine Owner's Manual*** for engine technical questions or information recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.

Transporting

- Always shutdown engine before transporting.
- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- Drain fuel when transporting rammer over long distances or bad roads.
- When placing the rammer inside a truck-bed for transport, always tie-down the rammer.

Emergencies

- Always know the location of the nearest ***fire extinguisher*** and ***first aid kit.*** Know the location of the nearest telephone. Also know the phone numbers of the nearest ***ambulance***, ***doctor*** and ***fire department***. This information will be invaluable in the case of an emergency.

Maintenance Safety

- **NEVER** lubricate components or attempt service on a running machine.
- Always allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in proper running condition.
- Fix damage to the machine immediately and always replace broken parts.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.
- **DO NOT** use food or plastic containers to dispose of hazardous waste.

Mikasa

P/N 920101580

P/N 920203330

NAMEPLATE

CONTACT MULTIQUIP
SERVICE DEPT.

SAE 10W-30
MOTOR OIL

P/N 920201950

3650 ~ 3850 RPM
NPA 90

P/N 920205820

CAUTION !

- READ OWNER'S SERVICE MANUAL BEFORE OPERATING OR SERVICING THIS MACHINE.
- ALWAYS KEEP UNAUTHORIZED, INEXPERIENCED, UNTRAINED PEOPLE AWAY FROM THIS MACHINE.
- MAKE SURE ALL SAFETY DEVICES ARE OPERATIONAL BEFORE THIS MACHINE IS STARTED. MAKE SURE ENGINE IS TURNED OFF AND SPARK PLUG WIRE DISCONNECTED BEFORE SERVICING THE MACHINE OR COMING IN CONTACT WITH ANY MOVING PART. IF EQUIPMENT IS POWERED BY AN ELECTRIC MOTOR, DISCONNECT ELECTRICAL PLUG.
- NEVER LEAVE MACHINE UNATTENDED WHEN OPERATING. ALWAYS STOP ENGINE AND ALLOW ENGINE TO COOL BEFORE ADDING FUEL OR OIL.

NPA-329

P/N 920203290

NOTICE
Clean the element with neutral cleanser solution and rinse it by water. Dry it well before intallation. Cleaning is requested more often in dusty conditions.

NPA-583

⚠ CAUTION

1. Before operation of this machine, the designated operator must read and completely understand the operating instruction manual.
2. Operator must wear correct protective clothing (safety glasses, steel toed boots, etc.).
3. Check all nuts, bolts and fasteners, retighten as necessary.
4. Lower unit lubrication must be checked daily (oil level must be at least half way on sight glass).
5. Engine oil must be checked daily (a good quality diesel oil must be used). Do not use gasoline motor oil.
6. These are only 3 positions on the throttle lever: Stop, Idle, and Operating.
7. Starting Engine:
   A. Place the throttle in the idle position.
   B. Pull the recoil until a slight resistance is felt.
   C. Allow recoil to retract. Press the decompression lever to decompress. Pull the recoil firmly and quick.
   D. Allow the recoil to retract before releasing.
   E. Engine must be allowed to warm-up approximately five minutes before operating unit.
8. Operating:
   Place the throttle lever to the operating position.
9. Stop:
   The engine must be allowed to idle for approximately three minutes before stopping.

NPA-584

Lubrication Oil Recommendations:
Lower Unit: SAE CF class or higher 10W30
Engine: SAE CC class or higher 10W30

Fuel:
Diesel

P/N 920205840

Definition of Tamping Rammer

The Mikasa MT-76D tamping rammer is a powerful compacting tool capable of applying a tremendous force in consecutive impacts to a soil surface. Its applications include soil compacting for road, embankments and reservoirs as well as backfilling for gas pipelines, water pipelines and cable installation work.

The impact force of the MT-76D levels and uniformly compacts voids between soil particles to increase dry density.

Circular motion is converted to create impact force. The MT-76D tamping rammer develops a powerful compacting force at the foot of the rammer. To maintain optimum performance, proper operation and service are essential.

Construction of Tamping Rammer

The Mikasa MT-76D Tamping Rammer is equipped with an Robin air cooled, four cycle gasoline engine. Transmission of the power takes place by increasing the engine speed to engage the centrifugal clutch.

Rammer Gearbox and Spring Cylinder

The Mikasa MT-76D uses an oil bath lubrication system. Always check the oil level through the oil level sight glass at the rear of the tamper foot.

Controls

Before starting the MT-76D Tamping Rammer, identify and understand the function of the controls, see Figure 1 on page 11.

Table1. MT-76D Rammer Specifications	
MODEL	MT-76D U.S. (metric)
Overall Height	39.4 in. (1,000 mm)
Overall Width	16.1 in (410 mm)
Over Length	28.3 in (720 mm)
Shoe Size	11 in. (285 mm)
Blows/minute	700
Impact Force	3,600 lbs./blow (1,623 kg/blow)
Clutch	Automatic Centrifugal
Operating Weight	176 lbs. (80 kg)

Table 2. Yanmar L-40 ADRM STD Engine Specifications	
MODEL	Yanmar L-40 ADRM STD ENGINE
Type	Air-Cooled 4 Stroke Diesel Engine
Piston Displacement	12.14 cu. in. (199 cc)
Max. Governed Speed, No Load	3,300 rpm
Cooling System	Air-Cooled
Lubrication System	Diesel Engine Lububricating Oil API Classification "CC" or "CD" Grade
Fuel	Automotive Diesel Fuel
Starting System	Recoil Starter with Auto-Return Decompression Device

NOTE

Specifications are general and are subject to change without notice. If exact measurements are required, equipment should be weighed and measured.

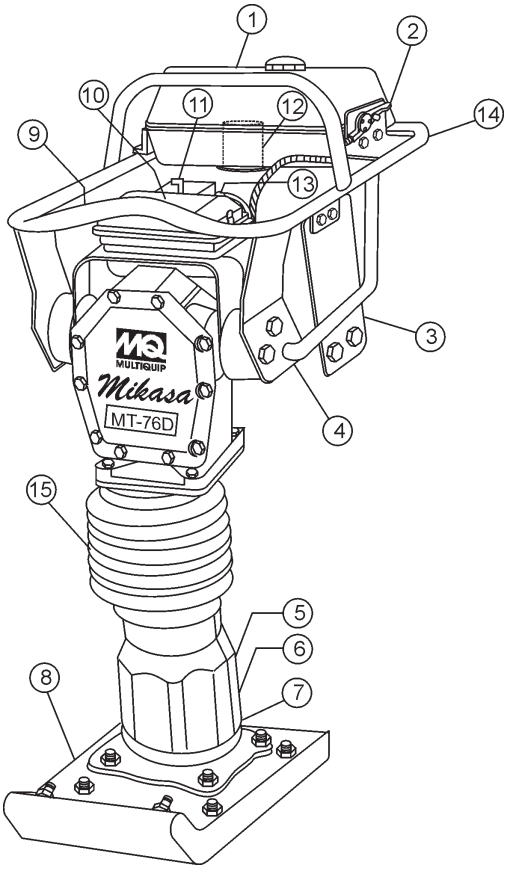
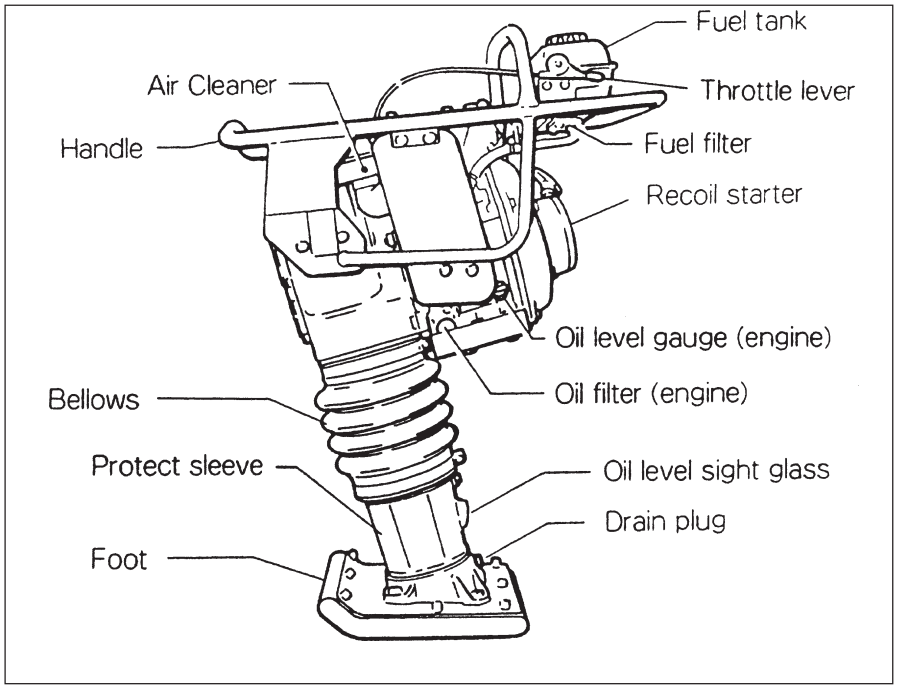


Figure A. MT-76D Tamping Rammer

Figure A shows the location of the controls and components for the MT-76D Tamping Rammer. The functions of each control is described below:

1. **Fuel Tank/Cap –** Remove this cap to add **diesel** fuel. Use high grade automotive diesel fuel only.
2. **Throttle Lever –** Controls engine speed and the tamping action of the rammer.
3. **Engine Oil Dipstick –** Indicates the level of the engine oil Use CC class or higer grade motor oil.
4. **Oil filter –** Prevents dirt and other debris from entering the engine.
5. **Oil Bath Fill Plug –** Open this plug to add oil to the oil bath reservoir.
6. **Oil Level Sight Glass –** Indicates the level of oil in the oil bath reservoir.
7. **Drain Valve –** Open this valve to remove oil from the bellows.
8. **Foot–** Laminated wood with tempered steel plate for superior shock absorption.
9. **Muffler–** Used to reduce noise and emissions.
10. **Engine Air Cleaner –** Prevents dirt and other debris from entering the engine.
11. **Decompression Lever –** Use in the starting of the engine. Press lever to engage. After engine starts lever will return to original position.
12. **Fuel Filter –** Located inside fuel tank. Prevents dirt and debris from entering fuel system.
13. **Recoil Starting Handle –** Used when starting the engine. Pull starter handle sharply and quickly, then return starter handle to starter case before releasing.
14. **Handle –** To operate rammer ***GRIP*** handle assembly firmly on both sides.
15. **Bellows –** Reservoir for oil bath.



1. Definition of Tamping Rammer

The Mikasa MT-76D diesel rammer is a powerful compacting tool capable of applying tremendous force in consecutive impacts to a soil surface. The impact force of the MT-76D levels and uniformly compacts voids between soil particles to increase dry density. Its applications include soil compacting for road, embankment and reservoirs as well as backfilling for gas pipelines, water pipelines and cable installation work.

2. Construction of Tamping Rammer

The rammer is equipped with an air-cooled, four-stroke diesel engine. Transmission of the power takes place by increasing engine speed to engage a centrifugal clutch. Circular motion is converted into vertical motion to create impact force.

3. Prior to Operation

3-1. Identification of Controls:

1. Throttle

2. Engine Lubrication Oil

3. Oil Fill Plug

4. Oil Level Sight Glass

5. Recoil Starter Handle

3-2. Preparation Inspection:

Rammer Gearbox and Spring Cylinder. This unit uses an oil bath lubrication system. Check oil level through oil level sight glass at rear of tamper foot. If oil is not visible, add #10W-30 motor oil. Oil bath contains approx. 1.7 pt. (800cc) for MT-76D.

3-3. Engine:

Use only automobile diesel fuel (Fig. 1). Check the engine oil before starting operation and fill the oil regularly (Fig. 2). For checking the oil level, move the engine to vertical position and check that the oil is level with the oil inlet (about 700cc).

3-4. Check all nuts, bolts and fasteners for tightness. Retighten as necessary.

3-5. Clean dirt from the recoil starter and foot. Wipe entire unit clean before operating.

3-6. Replace any missing or damaged Safety/Operation decals.

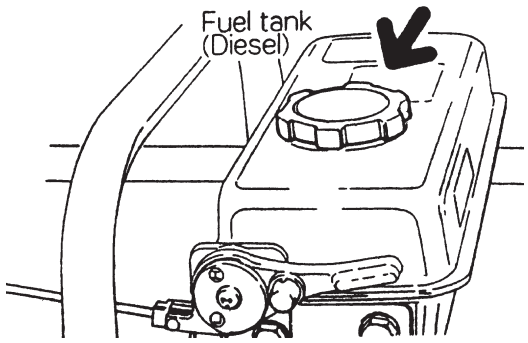


Fig. 1

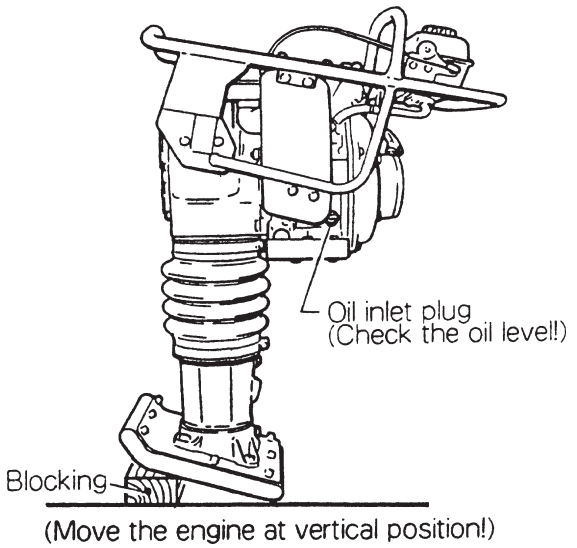


Fig. 2

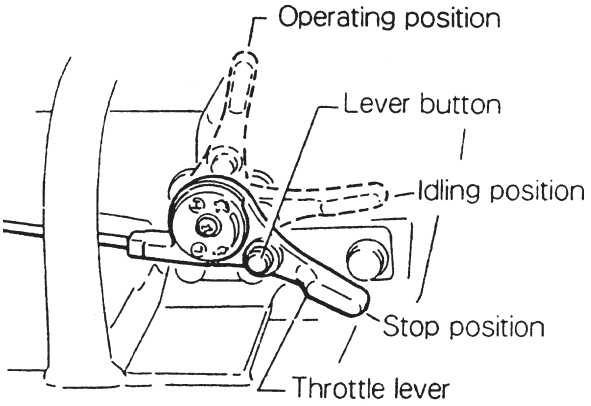


Fig. 3

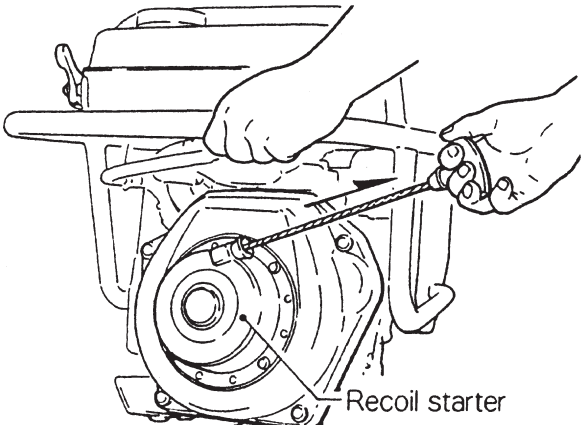


Fig. 4

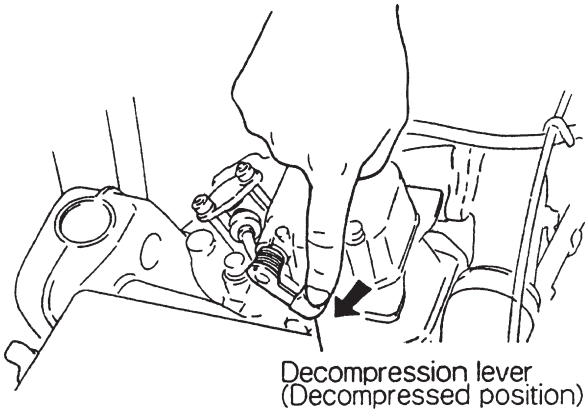


Fig. 5

4. Starting

4-1. Move the throttle lever to IDLE position. (Fig. 3)

Throttle lever is used only at three (STOP, IDLE & OPERATION) positions. When moving the lever from stop to idle position, depress button on lever at same time it is moved.

In cold weather, the engine should be started at operating position or between the idle and operation position of the throttle lever. Use caution as higher engine RPM may engage clutch, when engine starts. Return throttle lever from starting position to idle position when engine starts.

4-2. Grip the recoil starter handle and pull it until you feel a slight resistance. (Fig. 4)

4-3. Press the decompression lever to release decompression. The decompression lever will return automatically when the recoil starter is pulled. (Fig. 5)

4-4. Return the recoil starter, and pull the handle sharply and quickly. Warm up the engine by running at low speed for three to five minutes, while checking for fuel leakage or abnormal sounds.

Do not pull the starter rope all the way to the end and do not let the starter rope snap back as damage may result.

5. Operation

5-1. Move the throttle lever quickly from the IDLE to OPERATION position to start tamping action. DO NOT move the throttle lever slowly as this may cause damage to the clutch or spring box.

5-2. The tamping rammer is designed to tamp the ground 700 times per minute at an engine speed of 3,300 rpm. Increasing the engine speed above the recommended rpm will not increase the rammer effectiveness. Impact will actually decrease because a resonance is created rather than a tamping effect, and damage to the unit can result.

5-3. The rammer can be warmed by quickly moving the throttle lever from the OPERATION to the IDLE position several times until the rammer operates smoothly.

5-4. The tamping rammer is designed to travel forward while tamping. To increase travel speed, pull back slightly on the handle so that the rear of the foot contacts the soil first.

5-5. To stop tamping, quickly move the throttle lever from the OPERATION to IDLE position. Do not move the lever slowly as irregular action and damage may result.

6. Stopping the Engine

6-1. Move throttle lever quickly from idle to STOP while pressing the throttle lever button. Run the engine for three minutes at idle speed to allow for proper cool down. Following the above procedures will prevent improper cylinder lubrication caused by a overheated engine. (Fig. 6)

7. Service

CAUTION:

Flammable Liquid: When refueling, stop engine and allow it to cool.. Do no smoke or allow work to be performed in the immediate area. Fire or explosion could result from flames or sparks, or if fuel is spilled on a hot engine.

Moving Parts: Shut down the engine before performing service or maintenance functions. Contact with moving parts can cause serious injury.

High Temperatures: Allow machine and engine to cool before performing service or maintenance functions. Contact with hot components can cause serious burns.

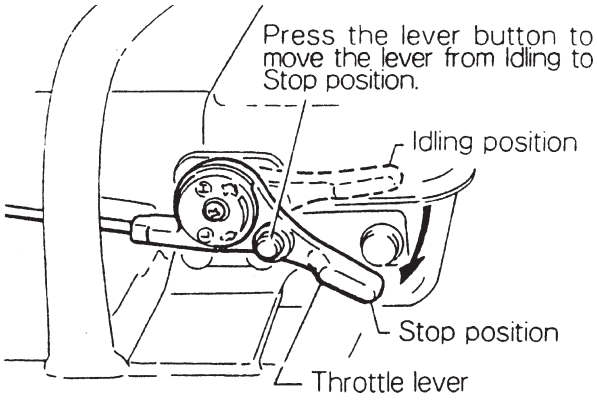


Fig. 6

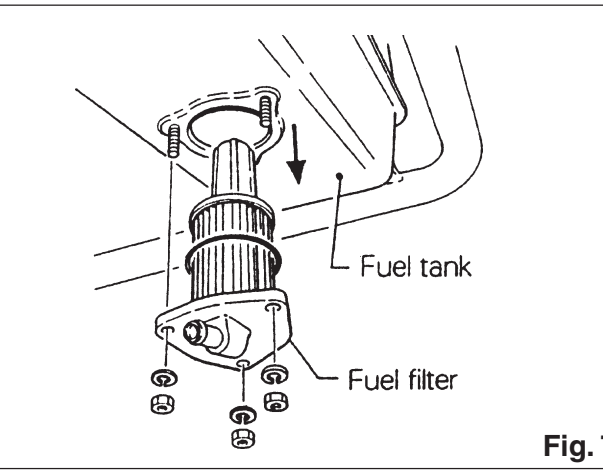


Fig. 7

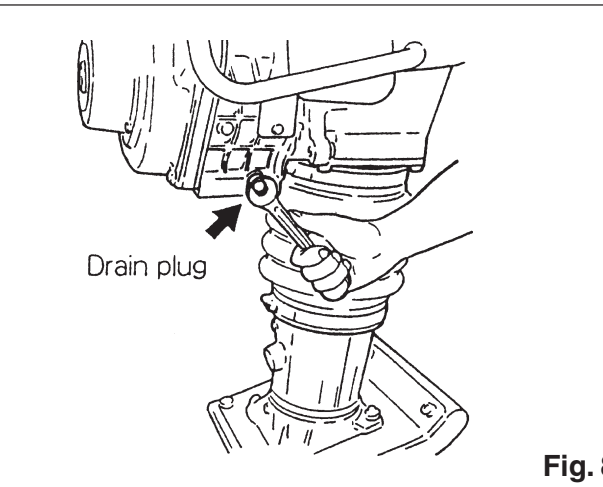


Fig. 8

7-1. Daily

- Thoroughly remove dirt and oil from the engine and control area.
- Clean or replaces air cleaner as necessary.
- Check and retighten all fasteners as necessary.
- Check spring box and bellows for oil leaks. Repair as needed.
- Remove element from pre-cleaner at the top of crankcase (body side) and clean it by air.

7-2. WEEKLY (every 50 hours)

- Remove the fuel filter cap and inspect for dirt in the fuel tank. (Fig. 7)

7-3. Replacement of Lubricant (BODY)

- Remove the drain plug at the rear of tamper foot and drain the dirty oil. Refill with clean oil to the middle of the sight glass. Oil bath contains approx. 1.7 pt. (800 cc) for MT-76D.

INITIAL OIL CHANGE:

After 50 hours of operation

Temperature	Classification of Oil	
20°C (+68°F) or over	CC class or higher grade	SAE 30
10¨C (+14°F) to 0°C (+68°F)		SAE 20
Below 10° (+14°F)		SAE 10W-30

SECOND OIL CHANGE AND/OR LATER

Every 200 hours of operation

7-4. Replacement of Lubricant (ENGINE)

7-4-1. While the engine is still warm, remove the drain plug. For quick discharging, it is advisable to take off the oil gauge. Replace drain plug and refill engine crankcase. (Fig. 8)

7-4-2. Refer to the following chart, for oil types

Inferior quality engine oil and/or lack of oil may cause engine trouble or shorten engine life.

7-4-3. The interval of oil replacement

INITIAL OIL CHANGE:

After 20 hours of operation

SECOND OIL CHANGE AND/OR LATER:

Every 100 hours of operation

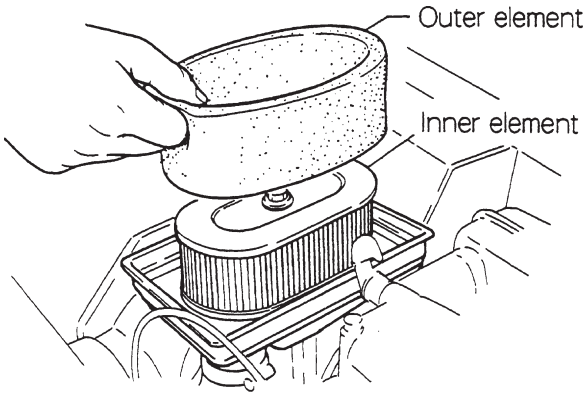


Fig. 9

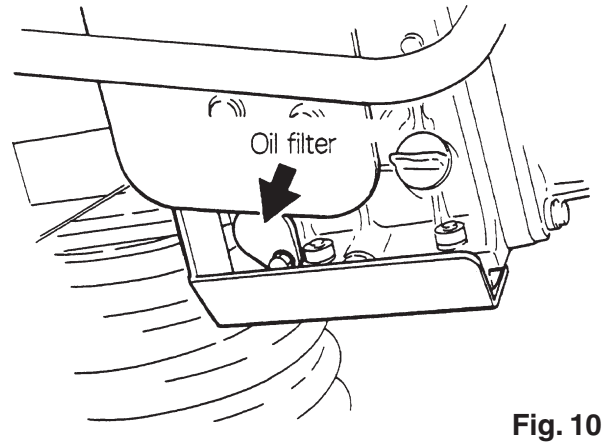


Fig. 10

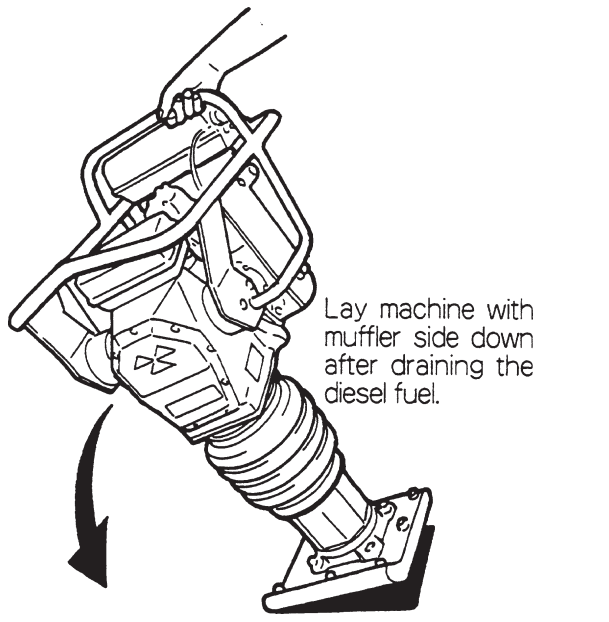


Fig. 11

7-5. Cleaning the Air Cleaner

Cleaning the Air Cleaner (every 200-300 hours) (Fig. 9)

- Remove element from pre-cleaner at the top of crankcase (body side).
- Wash the element (outside) in detergent solution.
- Shake out excess moisture and dry the element.
- Clean inside element with air from the inside of element.

7-6. Cleaning the Oil Filter

Drain oil filter every 100 hours of operation. Replace the oil filter every 1,000 hours of operation. (Fig. 10)

7-7. Fuel Pipe & Oil Pipe

- Check fuel line regularly for damage, paying attention to clamps to assure a tight fit.
- Replace fuel line every two years to maintain original performance.

7-8. Transportation

Maintain upright position of rammer at all times. Transport rammer in upright position. If machine must be laid down for transportation, drain the diesel fuel first and lay machine with muffler side down (Fig. 11)

The fuel filter is installed at the bottom of fuel tank. Should the rammer be laid on its side, dirt from the fuel filter may contaminate the injection nozzle, causing damage to the fuel pump.

7-9. Storage

- When storing the rammer for long periods of time, thoroughly drain all fuel from line.
- Clean exterior of rammer with an oil moistened cloth. Cover and store in a clean, dry place.

Engine

A. Difficult to start

1 No diesel fuel
2 Throttle lever at wrong position (Stop position)
3 Excess engine oil
4 Injection nozzle clogged
5 Recoil starter not pulled with enough speed.
6 Air cleaner clogged
7 Clutch failure
8 Fuel line clogged

B. Operation not satisfactory

1 Engine speed improperly set.
2 Clutch slips
3 Excess lubricant oil causing irregular jumping or protective sleeve is heated.
4 Lack of lubricant oil causing irregular jumping.
5 Spring failure
6 Spring cylinder locked

MT-76D — EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

The contents and part numbers listed in the parts section are subject to change ***without notice***. Multiquip does not guarantee the availibility of the parts listed.

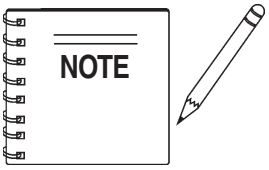
Sample Parts List:

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12345	BOLT	1	INCLUDES ITEMS W/*
2*		WASHER, 1/4 IN.		NOT SOLD SEPARATELY
2*	12347	WASHER, 3/8 IN.	1	MQ-45T ONLY
3	12348	HOSE	A/R	MAKE LOCALLY
4	12349	BEARING	1	S/N 2345B AND ABOVE

NO. Column

Unique Symbols - All items with same unique symbol (*, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the "Remarks" column.

Duplicate Item Numbers - Duplicate numbers indicate multiple part numbers are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.



When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

PART NO. Column

Numbers Used - Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the "Remarks" Column.

QTY. Column

Numbers Used - Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the "Remarks" Column.

REMARKS Column

Some of the most common notes found in the "Remarks" Column are listed below. Other additional notes needed to describe the item can also be shown.

Assembly/Kit - All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:
"INCLUDES ITEMS W/(unique symbol)"

Serial Number Break - Used to list an effective serial number range where a particular part is used.

Indicated by:
"S/N XXXXX AND BELOW"
"S/N XXXX AND ABOVE"
"S/N XXXX TO S/N XXX"

Specific Model Number Use - Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:
"XXXXX ONLY"
"NOT USED ON XXXX"

"Make/Obtain Locally" - Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

"Not Sold Separately" - Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

MT-76D DIESEL RAMMER
1-3 UNITS

1 .... 956200040 ..... THROTTLE LEVER ASSY
1 .... 956108040 ..... THROTTLE WIRE
3 .... 371010060 ..... ELEMENT ASSY
3 .... 954405080 ..... STRAINER, FUEL TANK
2 .... 18325455120 ..... STRAINER ASSY, FUEL
1 .... 0430430015 ..... CAP, FUEL TANK
1 .... 16071001760 ..... CAP, W/LUB OIL GA.
2 .... 11425035070 ..... STRAINER, OIL LUB.
2 .... 24341000224 ..... O-RING, OIL LUB. STRAINER

MT-76D DIESEL RAMMER
5-10 UNITS

5 .... 956200040 ..... THROTTLE LEVER ASSY
5 .... 956108040 ..... THROTTLE WIRE
10 .. 371010060 ..... ELEMENT ASSY
10 .. 954405080 ..... STRAINER, FUEL TANK
8 .... 18325455120 ..... STRAINER ASSY, FUEL
6 .... 0430430015 ..... CAP, FUEL TANK
6 .... 16071001760 ..... CAP, W/LUB OIL GA
8 .... 11425035070 ..... STRAINER, OIL LUB
8 .... 24341000224 ..... O-RING, OIL LUB STRAINER
4 .... 71425053101 ..... INJECTOR ASSY, FUEL
2 .... 11425053001 ..... NOZZLE, FUEL
4 .... 71425092602 ..... GASKET SET, ENGINE
3 .... 24421304508 ..... SEAL, OIL
3 .... 16021002220 ..... SEAL, OIL
3 .... 354332780 ..... BELLOWS, ORANGE
4 .... 354329380 ..... BELLOWS CLAMP
2 .... 371447630 ..... CLUTCH ASSY
2 .... 943020060 ..... CLUTCH SHOE (4)
4 .... 943030060 ..... CLUTCH SPRING
2 .... 71425061500 ..... LEVER ASSY, GOVERNOR
1 .... 050201500 ..... O-RING, UPPER GUIDE CYLINDER
2 .... 050931500 ..... O-RING, MIDDLE GUIDE CYLINDER
1 .... 050101100 ..... O-RING, LOWER GUIDE CYLINDER
1 .... 050100950 ..... O-RING, FOOT PLATE GUIDE CYLINDER

NOTE

Part number on this Suggested Spare Parts List may super cede/ replace the P/N shown in the text pages of this book.

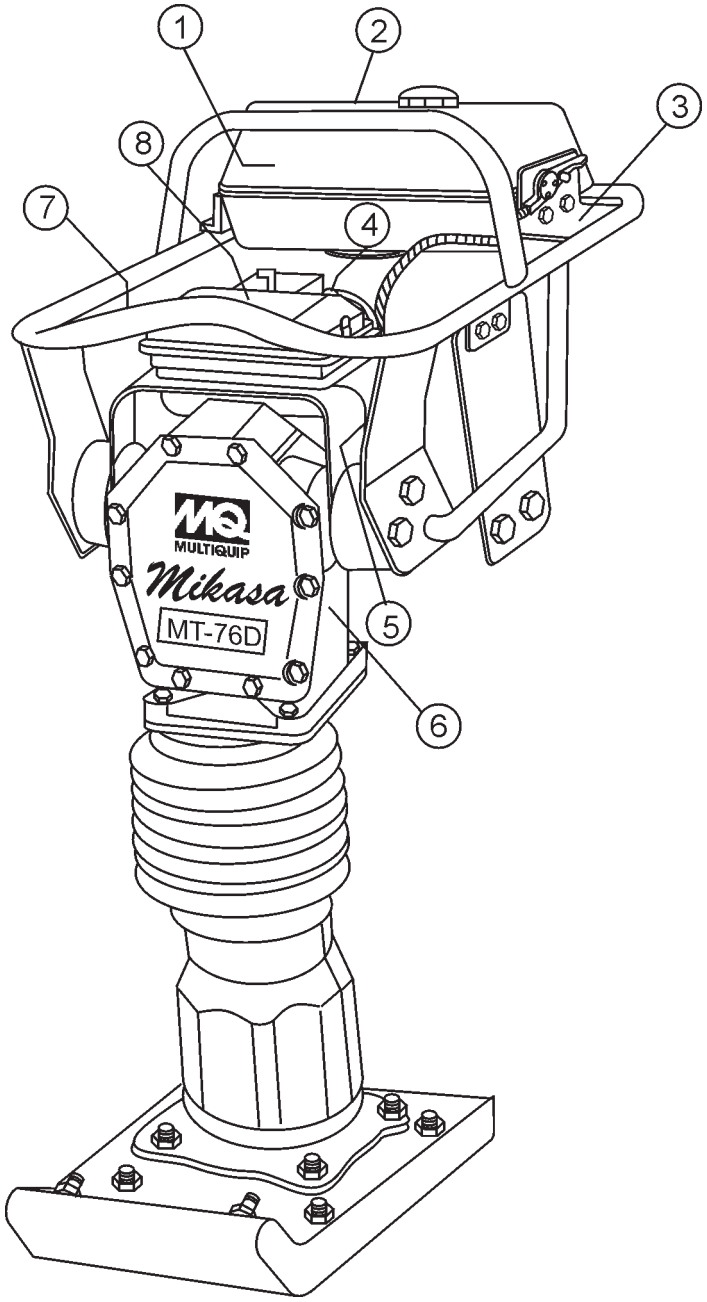
MT-76D DIESEL RAMMER
3-5 UNITS

3 .... 956200040 ..... THROTTLE LEVER ASSY
3 .... 956108040 ..... THROTTLE WIRE
5 .... 371010060 ..... ELEMENT ASSY
5 .... 954405080 ..... STRAINER, FUEL TANK
4 .... 18325455120 ..... STRAINER ASSY, FUEL
3 .... 0430430015 ..... CAP, FUEL TANK
3 .... 16071001760 ..... CAP, W/LUB. OIL GA.
4 .... 11425035070 ..... STRAINER, OIL LUB.
4 .... 24341000224 ..... O-RING, OIL LUB. STRAINER
2 .... 71425053101 ..... INJECTOR ASSY, FUEL
1 .... 71425092602 ..... GASKET SET, ENGINE
1 .... 354332780 ..... BELLOWS, ORANGE
1 .... 371447630 ..... CLUTCH ASSY
1 .... 71425061500 ..... LEVER ASSY, GOVERNOR
1 .... 24421304508 ..... SEAL, OIL, ENGINE
1 .... 16021002220 ..... SEAL, OIL, ENGINE

MT-76D DIESEL RAMMER
10+ UNITS

8 .... 956200040 ..... THROTTLE LEVER ASSY
8 .... 956108040 ..... THROTTLE WIRE
15 .. 371010060 ..... ELEMENT ASSY
15 .. 954405080 ..... STRAINER, FUEL TANK
11 .. 18325455120 ..... STRAINER ASSY, FUEL
8 .... 0430430015 ..... CAP, FUEL TANK
8 .... 16071001760 ..... CAP, W/LUB OIL GA
11 .. 11425035070 ..... STRAINER, OIL LUB.
11 .. 24341000224 ..... O-RING, OIL LUB. STRAINER
8 .... 71425053101 ..... INJECTOR ASSY, FUEL
4 .... 11425053001 ..... NOZZLE, FUEL
8 .... 71425092602 ..... GASKET SET, ENGINE
8 .... 24421304508 ..... SEAL, OIL, ENGINE
8 .... 16021002220 ..... SEAL, OIL, ENGINE
6 .... 354332780 ..... BELLOWS, ORANGE
8 .... 354329380 ..... BELLOWS CLAMP
3 .... 371447630 ..... CLUTCH ASSY
4 .... 943020060 ..... CLUTCH SHOE (4)
8 .... 943030060 ..... CLUTCH SPRING
4 .... 71425061500 ..... LEVER ASSY, GOVERNOR
4 .... 050201500 ..... O-RING, UPPER GUIDE CYLINDER
8 .... 050931500 ..... O-RING, MIDDLE GUIDE CYLINDER
4 .... 050101100 ..... O-RING, LOWER GUIDE CYLINDER
4 .... 050100950 ..... O-RING, FOOT PLATE GUIDE CYLINDER
1 .... 71426076821 ..... RECOIL STARTER ASSY.

NAME PLATE AND DECALS



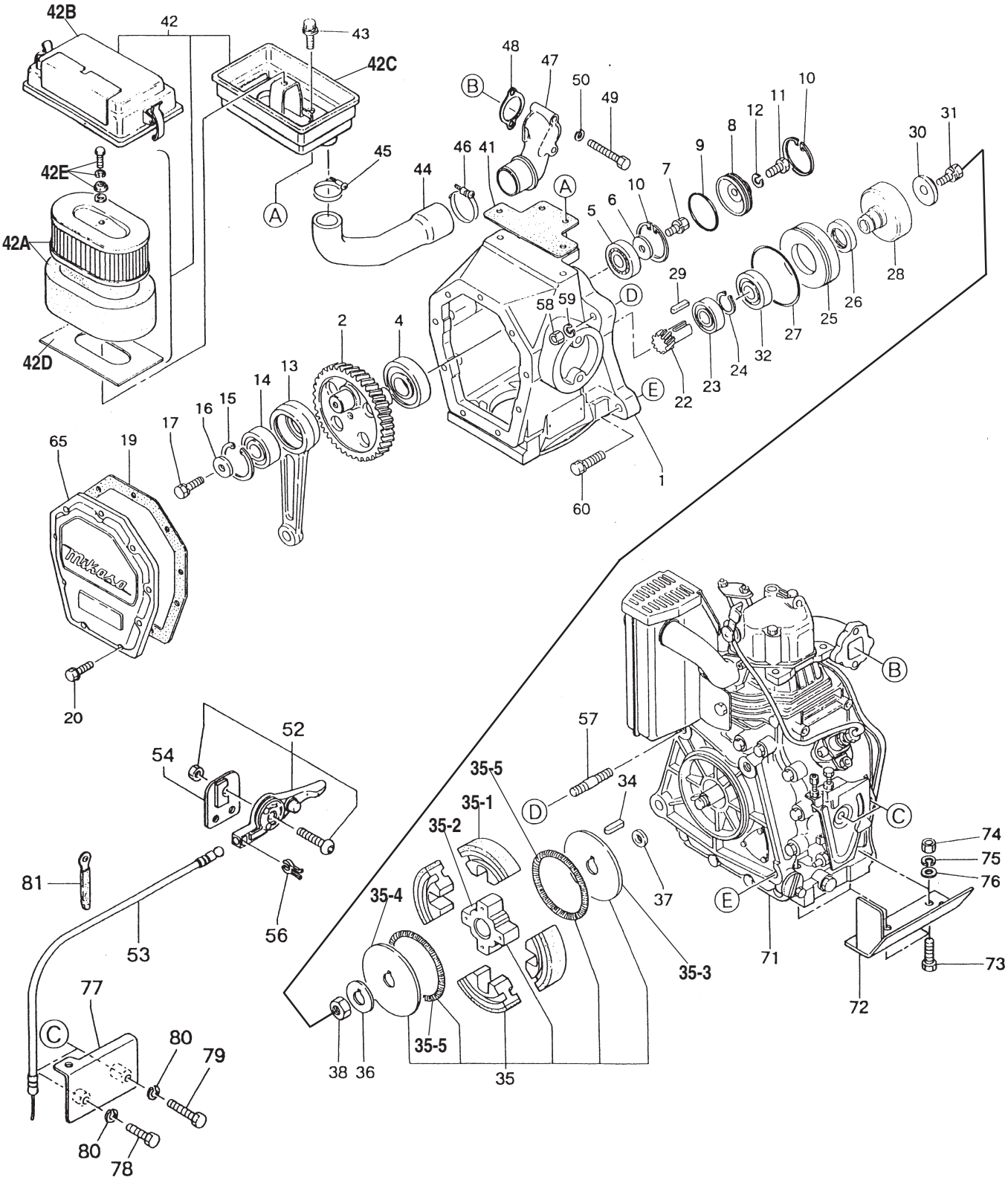
MT-76D— NAMEPLATE/DECAL LOCATION

NAME PLATE AND DECALS

NO.	PART NO.	PART NAME	QTY.	REMARKS
1*	920101580	DECAL: MIKASA MARK	1	
2*	920205840	DECAL: FUEL DIESEL	1	NPA-584
3*	920203330	DECAL: EAR PROTECTION	1	NAA-333
4*	920205820	DECAL ENGINE R.P.M 3100-3300	1	
5*	920203290	DECAL: READ OWNER'S MANUAL	1	NPA-329
6		PLATE: SERIAL NO. MT-86D	1	ORDER FROM MQ SER. DEPT. W/MODEL & S/N
7*	920201950	DECAL: MOTOR OIL	1	
8*	920205830	DECAL, AIR CLEANER	1	NPA-583
9	DCL86D/76D	DECAL KIT, MT-86D/MT-76D	1	INCLUDES ITEMS W/*

FOR DECAL ILLUSTRATIONS SEE PAGE 8.

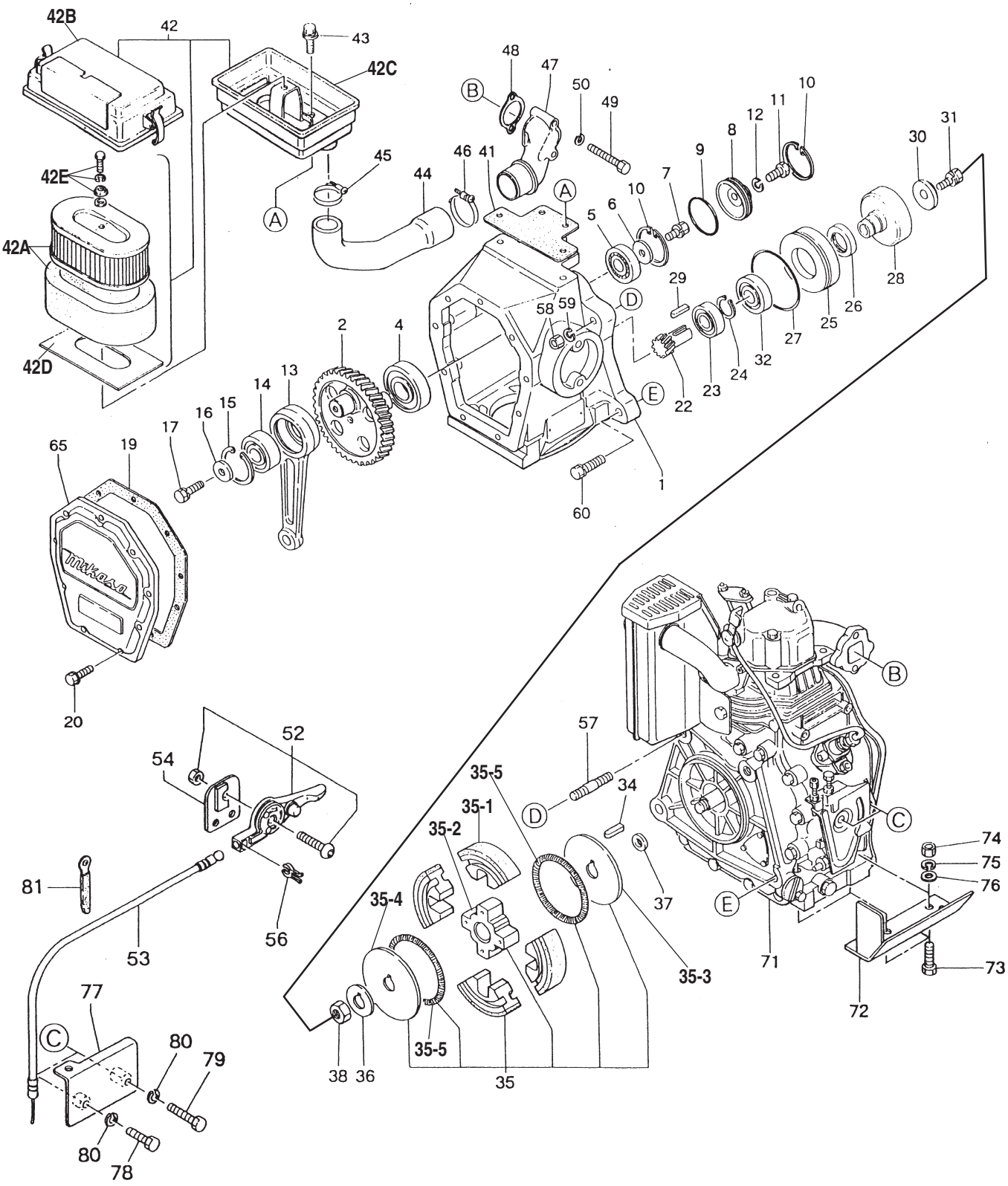
CRANKCASE AND ENGINE ASSY.



CRANKCASE AND ENGINE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	371113330	CRANKCASE	1	
2	371334400	CRANK GEAR	1	
4	040006207	BEARING 6207	1	
5	040006204	BEARING 6204	1	
6	952400130	WASHER 9304	1	
7	011708025	BOLT 8X25H, SW	1	REPLACES 002210825
8	371447650	BEARING COVER	1	
9	050300480	O-RING S-48	1	
10	080100480	STOP RING R-48	2	
11	001210610	BOLT 6X10H	1	
12	030206150	WASHER SW M6	1	
13	371334730	CONNECTING ROD	1	
14	040006304	BEARING 6304	1	
15	080100520	STOP RING R-52	1	
16	952400130	WASHER 9304	1	
17	011708025	BOLT 8X25H, SW	1	REPLACES 002210825
19	352444450	PACKING, FRONT COVER	1	
20	011706020	BOLT 6X20H, SW	9	REPLACES 002210620
22	371447620	PINION	1	
23	040006204	BEARING 6204	1	
24	080200350	STOP RING S-35	1	
25	371449600	SPACER	1	REPLACES 371335280
26	060404010	OIL SEAL TC-40528	1	
27	050101000	O-RING G-100	1	
28	371447640	CLUTCH DRUM	1	
29	952405610	KEY 5X5X19R	1	
30	952405490	LOCK WASHER	1	
31	002210820	BOLT 8X20H, SW	1	
32	041006007	BEARING 6007Z	1	
34	22512040120	KEY 4X12	1	
35	371447630	CLUTCH ASSY.	1	INCLS. ALL ITEMS W/*
35-1*	943020060	CLUTCH SHOE (4)	1	
35-2*	943950120	CLUTCH BOSS	1	
35-3*	943060070	CLUTCH GUIDE (A)	1	
35-4*	943060080	CLUTCH GUIDE (B)	1	
35-5*	943030060	CLUTCH SPRING	2	REPLACES 943030090
36	301010210	LOCK WASHER, CLUTCH	1	

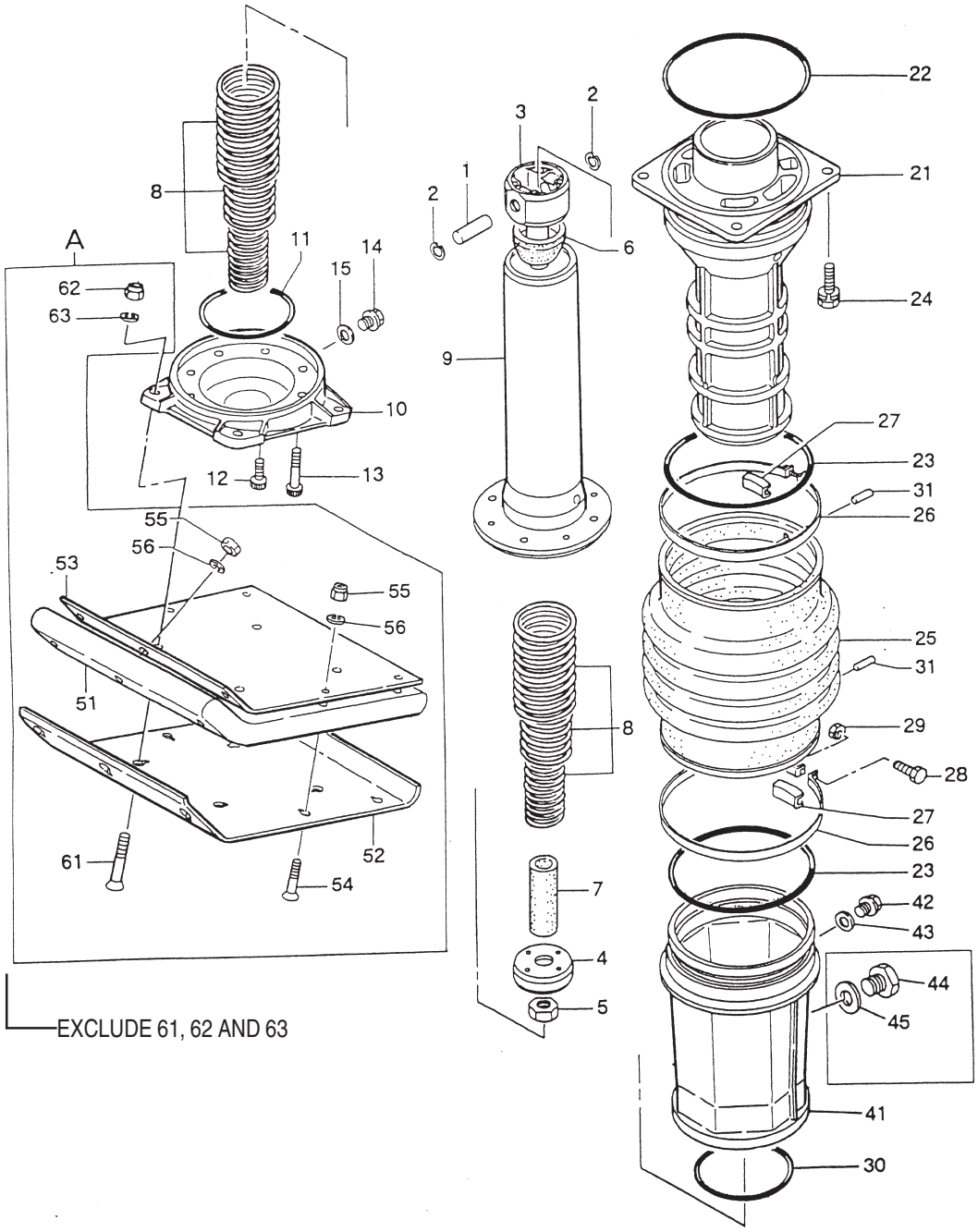
CRANKCASE AND ENGINE ASSY.



CRANKCASE AND ENGINE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
37	371448260	SPACER 15X24X4	1	
38	022910170	NUT M12	1	
41	371448220	PACKING, AIR CLEANER	1	
42	371213390	AIR CLEANER ASSY	1	..... INCLS. ALL ITEMS W/#
42A#	371010060	ELEMENT ASSY	1	
42B#	371010030	BODY ASSY	1	
42C#	371010040	BACK PLATE	1	
42D#	371010050	SEAT, AIR CLEANER	1	
42E#	371010070	BOLT ASSY.	1	
43	002210820	BOLT 8X20H, SW	4	
44	371335110	INTAKE PIPE	1	
45	371000010	HOSE BAND (B)	1	
46	371000020	HOSE BAND (B)	1	
47	371335270	INTAKE FLANGE	1	
48	11428412200	GASKET, AIR INTAKE	1	
49	001200652	BOLT 6X60	2	
50	030206150	WASHER SW M6	2	
52	956200040	THROTTLE LEVER ASSY	1	
53	956108040	THROTTLE WIRE	1	
54	371448000	LEVER STAY	1	
56	371448300	CLIP (M)	1	
57	26226100402	STUD M10X20 PLATED	2	
58	020310080	NUT M10	2	
59	030210250	WASHER SW M10	2	
60	002211050	BOLT 10X50H, SW	2	
65	371010020	FRONT COVER	1	
71	914410003	ENGINE ASSY L40 ADRM	1	
72	371335100	UNDER PROTECTOR	1	
73	001211040	BOLT 10X40 H	2	
74	020310080	NUT M10	2	
75	030210250	WASHER SW M10	2	
76	031110160	WASHER PW M10	1	
77	371448020	LINK PROTECTOR	1	
78	001200630	BOLT 6X30	1	
79	001200635	BOLT 6X35	1	
80	030206150	WASHER SW M6	2	
81	16026078700	CLAMP WIRE	2	

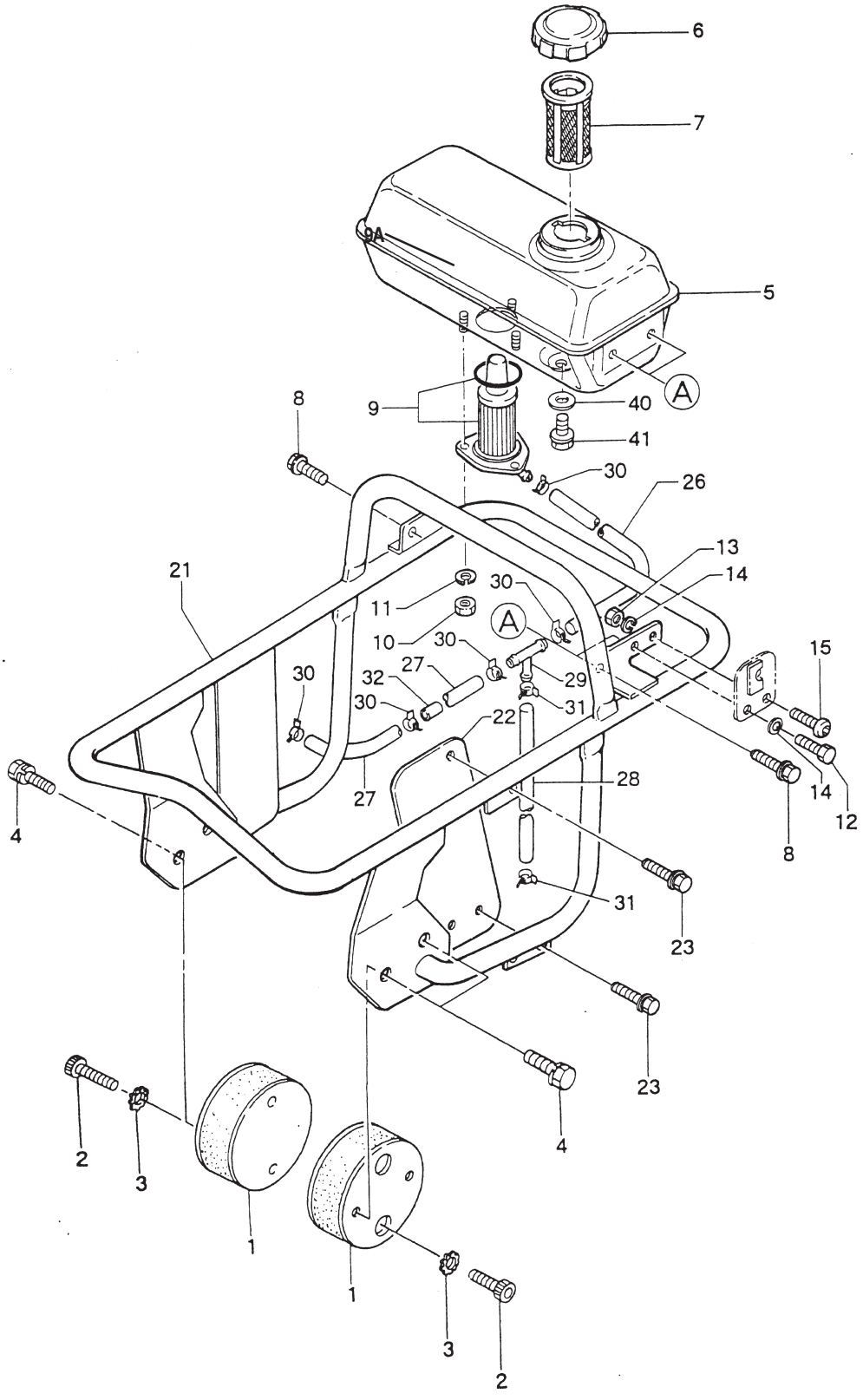
CYLINDER GUIDE AND FOOT ASSY.



CYLINDER GUIDE AND FOOT ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	352423290	PISTON PIN	1	
2	080100150	STOP RING R-15	2	
3	355334300	PISTON ROD	1	
4	355447240	PISTON END	1	
5	020316130	NUT M16, P1.5	1	REPLACES 020116130
6	355447250	STOPPER, UPPER	1	
7	355447260	STOPPER, LOWER	1	
8	371335250	MAIN SPRING	2	
9	355334310	SPRING CYLINDER	1	
10	355213000	FOOT PLATE	1	
11	050100900	O-RING G-90	1	
12	014210020	SOCKET HEAD BOLT 10X20T	4	REPLACES 001521020
13	014210040	SOCKET HEAD BOLT 10X40T	4	REPLACES 001521040
14	953405270	PLUG 1/4X14 13L	1	
15	953405260	PACKING 1/4 (CU)	1	
21	355213010	GUIDE CYLINDER	1	
22	050201500	O-RING P-150	1	
23	050931500	O-RING JAS03150	2	
24	012710035	BOLT 10X35, SW	4	REPLACES 002211035
25	354332780	BELLOWS, ORANGE	1	
26	354329380	BELLOWS CLAMP	2	
27	354442340	BAND GUIDE, BELLOWS	2	
28	001210840	BOLT 8X40 H	2	
29	020108060	NUT M8	2	REPLACES 020308060
30	050100950	O-RING G-95	1	
31	354446170	PIN 6D-8.5L	2	
41	355113130	PROTECTION SLEEVE	1	
42	953405270	PLUG 1/4X14 13L	1	
43	953405260	PACKING 1/4(CU)	1	
44	959010150	LEVEL GAUGE, PLUG TYPE	1	
45	953404670	COPPER PACKING 17X25.5X1	1	
A		FOOT ASSY 285W-E/F.COVER	1	INCLUDES ITEMS W/* CONTACT UNIT SALES DEPT./ACCESSORY ITEM
51*	352108220	FOOT 285B-331L	1	
52*	352108230	METAL SHEET 285W	1	
53*	352333380	FOOT COVER	1	
54*	015110055	SUNK HEAD BOLT 10X55H	7	REPLACES 001611051
55*	021110120	NYLON NUT M10	7	REPLACES 002711012
56*	030210250	WASHER SW M10	7	
61	015112060	SUNK HEAD BOLT 12X65H	4	REPLACES 001611253
62	021112140	NYLON NUT M12	4	REPLACES 022711214
63	030212300	WASHER SW M12	4	

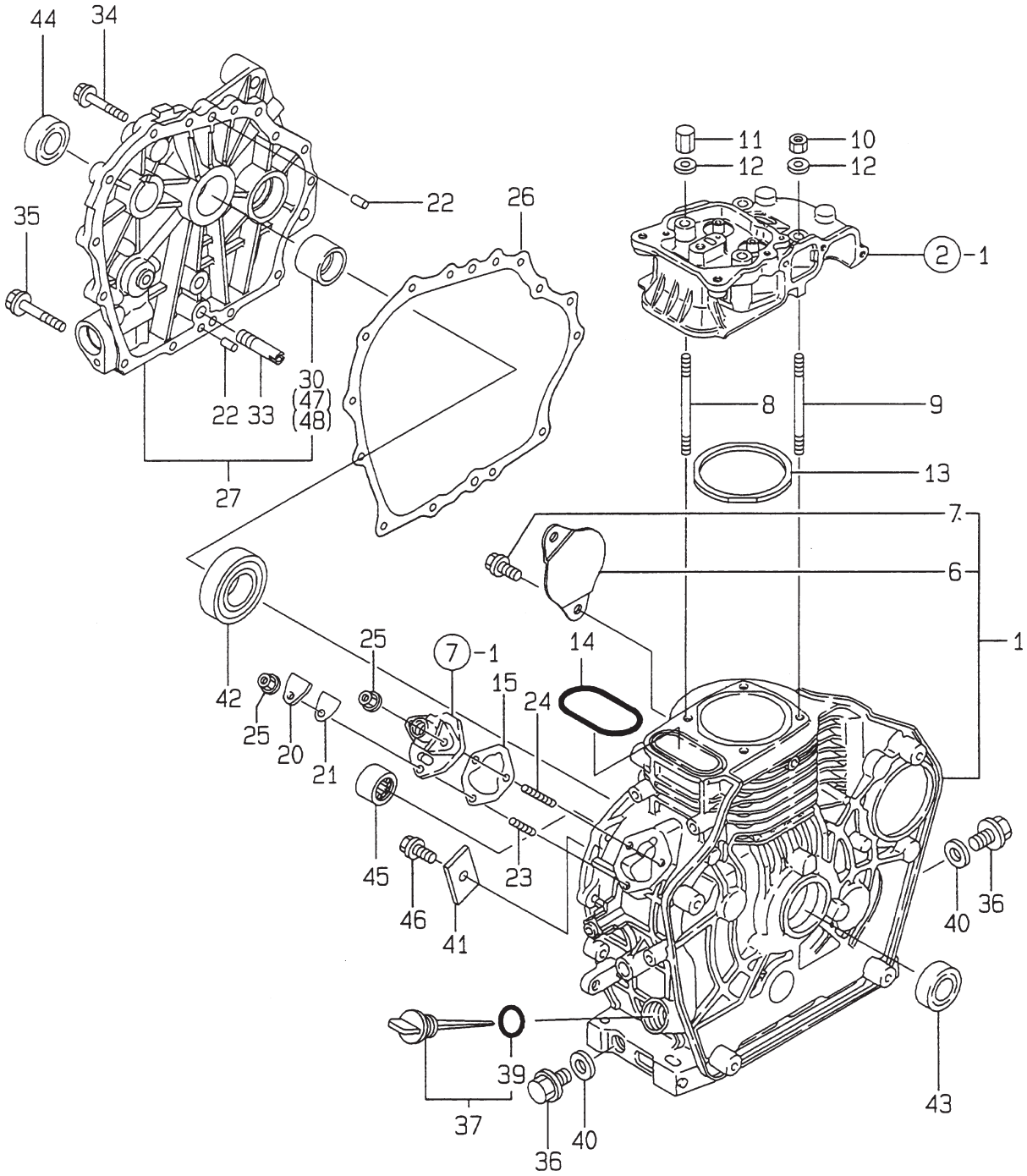
TANK AND HANDLE ASSY.



TANK AND HANDLE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	351319900	SHOCK ABSORBER	2	
2	014210020	SOCKET HEAD BOLT 10X20T	4	REPLACES 001521020
3	033121009	TOOTHED LOCK WASHER B M10	4	
4	012210020	BOLT 10X20H, SW	4	REPLACES 002211020
5	371113650	FUEL TANK	1	
6	0430430015	FUEL TANK CAP	1	REPLACES 953404650
7	954405080	STRAINER (#100)	1	
8	011808015	BOLT 8X15H, SW, PW	3	REPLACES 002410815
9	18325455120	STRAINER ASSY, FUEL	1	INCLUDES ITEM W/*
9A*	24341000450	O-RING	1	
10	020106050	NUT M6	3	REPLACES 020306050
11	030206150	WASHER SW M6	3	
12	001210815	BOLT 8X15H	1	
13	020108060	NUT M8	1	REPLACES 020308060
14	030208200	WASHER SW M8	2	
15	009110011	SOCKET HEAD SCREW 8X20	1	
21	371113560	HANDLE	1	
22	371448010	SIDE PROTECTOR	1	
23	011808015	BOLT 8X15H, SW, PW	3	REPLACES 002410815
26	18366659330	PIPE, FUEL DRAIN	1	
27	18325059050	PIPE, FUEL OIL	1	
28	11435459070	PIPE, FUEL RETURN	1	
29	11428459710	JOINT	1	
30	10699044660	CLAMP	5	
31	12472259050	CLAMP	2	
32	18325059040	PIECE	1	
40	953405810	PACKING PF 1/8	1	
41	953405800	FLANGE PLUG PF 1/8	1	

CYLINDER BLOCK ASSY.



(2) = SEE PG. 28 AND 29 FOR P/N

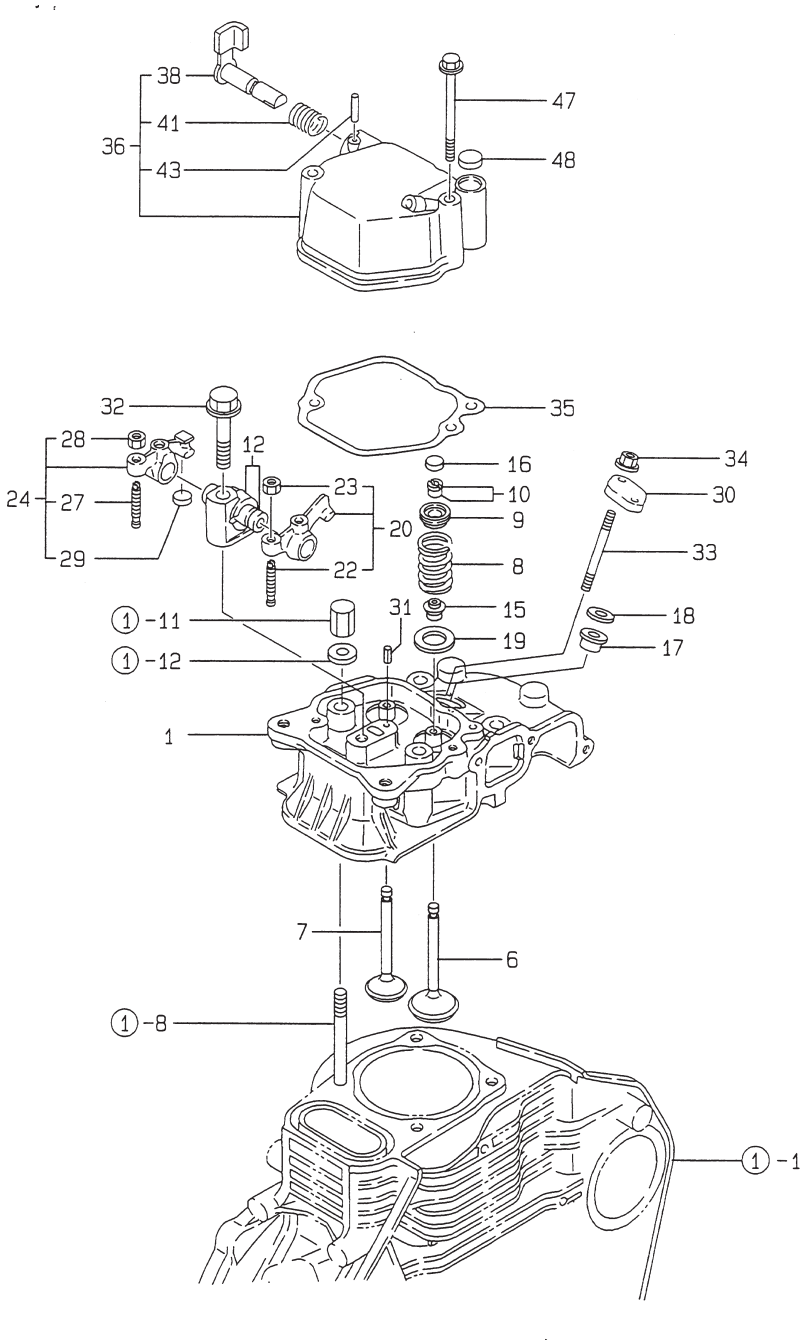
(7) = SEE PG. 36 AND 37 FOR P/N

CYLINDER BLOCK ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	71427001560	BLOCK ASSY., CYLINDER	1	INCLUDES ITEMS W/*
6*	11435001700	COVER, STARTER	1	
7*	26106100122	BOLT M10X 12	2	
8	11425001200	STUD, CYL. HEAD	2	
9	11425001210	STUD, CYL. HEAD	2	
10	11425001220	NUT 8	2	
11	11425001250	NUT 8	2	
12	12495001250	WASHER	4	
13#	11425001340	GASKET, CYL. HEAD	1	
14#	11425001380	O-RING	1	
15	11425001800	SHIM SET	1	
20	11425001830	COVER, INSPEC. WINDOW	1	
21#	11425001841	GASKET	1	
22+	11427001600	PARALLEL PIN 8X12	2	
23	26226060182	STUD M 6X18 PLATED	1	
24	26226060222	STUD M 6X22 PLATED	2	
25	26366030002	NUT M6	3	
26#	11425001412	GASKET, CRANKCASE	1	
27	11428401451	COVER ASSY., CASE	1	INCLUDES ITEMS W/+
30+	11425002100	BEARING, MAIN	1	
33+	11425035150	PIPE, L.O. INLET	1	
34	26106060252	BOLT M6X25 PLATED	14	
35	26106080352	BOLT M8X35 PLATED	1	
36	10542501690	PLUG M16	2	
37	16071001760	CAP, W/LUB. OIL GAUGE	1	INCLUDES ITEM W/%
39#%	24311000180	O-RING 1A P-18.0	1	
40#	22190160002	SEAL WASHER 16S	2	
41	11425002030	RETAINER, BEARING	1	
42	11425002113	BALL BEARING	1	
43	24421304508	SEAL, OIL	1	REPLACES 16011002220
44	16021002220	SEAL, OIL	1	
45	24162152112	NEEDLE BEARING	1	
46	26106080122	BOLT M8X12 PLATED	1	
47	11425002200	MAIN BEARING US=0.25 O/S	1	
48	11425002210	MAIN BEARING US=0.50 O/S	1	
#	71425001340	GASKET SET		COMPONENTS ALSO ON PG. 29,33 & 38

YANMAR L-40ADRM ENGINE — CYLINDER HEAD AND BONNET ASSY.

CYLINDER HEAD AND BONNET ASSY.



○1 *= SEE PG. 26 AND 27 FOR P/N*

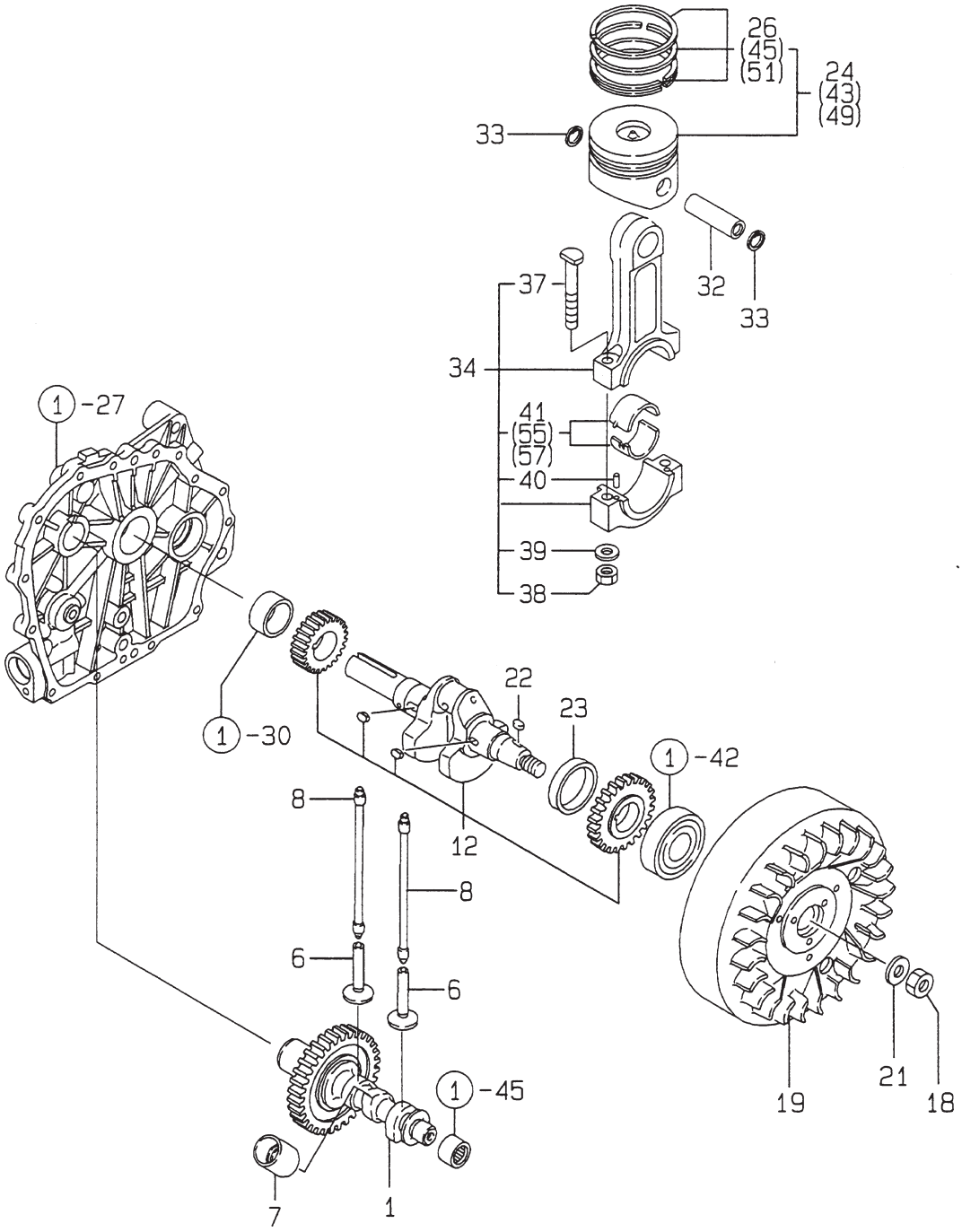
YANMAR L-40ADRM ENGINE — CYLINDER HEAD AND BONNET ASSY.

CYLINDER HEAD AND BONNET ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	11477011020	HEAD ASSY, CYLINDER	1	
6	11425011101	VALVE, SUCTION	1	
7	11425011113	VALVE, EXHAUST	1	
8	11425011120	SPRING, VALVE	2	
9	11425011180	RETAINER, SPRING	2	
10	71425011570	COTTER ASSY	2	
12	11425011290	SUPPORT, ROCKER ARM	1	
15#	11425011340	SEAL, VALVE STEM	2	
16	11926011370	CAP, VALVE	1	
17#	11425011460	GASKET, NOZZLE	1	
18	11435011470	SPACER, NOZZLE	1	
19	11425011600	WASHER	2	
20	11425011651	ARM ASSY, INTAKE	1	INCLUDES ITEMS W/*
22*	11425011240	SCREW, VALVE ADJUST.	1	
23*	26756060002	LOCK NUT M6 PLATED	1	
24	71427011660	ARM ASSY, EXHAUST	1	INCLUDES ITEMS W/+
27+	11425011240	SCREW, VALVE ADJUST.	1	
28+	26756060002	LOCK NUT M6 PLATED	1	
29+	11926011370	CAP, VALVE	1	
30	11425011900	RETAINER, NOZZLE	1	
31	22351040008	SPRING PIN 4X8	1	
32	26106080452	BOLT M8X45 PLATED	1	
33	26226060502	STUD M6X50	2	
34	26366060002	NUT M6	2	
35#	11425011311	GASKET, BONNET	1	
36	11428811960	BONNET ASSY	1	INCLUDES ITEMS W/%
38%	11428803580	SHAFT ASSY, DECOMP.	1	
41%	11428803640	SPRING	1	
43%	22312030160	PARALLEL PIN 3X16	1	
47	26106060552	BOLT M6X55 PLATED	2	
48	12910061850	PLUG 12, BORE	1	
#	71425092602	GASKET SET		COMPONENTS ALSO FOUND ON PG. 27, 33 & 38

YANMAR L-40ADRM ENGINE — CRANKSHAFT, PIS. & CAMSHAFT ASSY.

CRANKSHAFT, PISTON AND CAMSHAFT ASSY.



① = *SEE PG. 26 AND 27 FOR P/N*

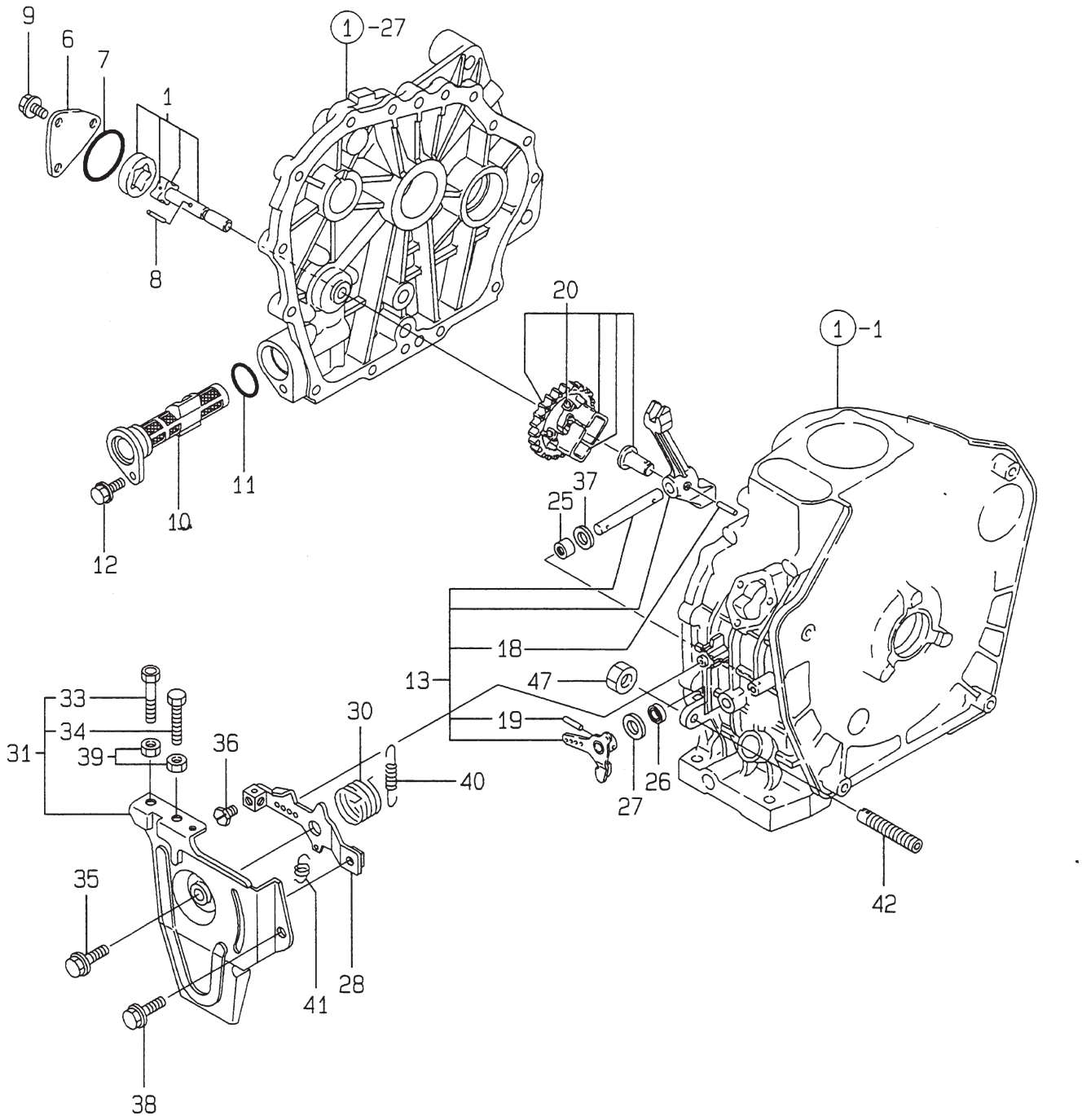
YANMAR L-40ADRM ENGINE — CRANKSHAFT, PIS. & CAMSHAFT ASSY.

CRANKSHAFT, PISTON AND CAMSHAFT ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	71478014580	CAMSHAFT (D) ASSY	1	
6	11425014200	TAPPET	2	
7	11425014260	TAPPET, FUEL	1	
8	11425014450	ROD, PUSH	2	
12	71428421710	CRANKSHAFT ASSY	1	
18	10385401221	NUT M16	1	
19	11428821401	FLYWHEEL	1	
21	11425021550	WASHER, FLYWHEEL	1	
22	22512040120	KEY 4X12	1	
23	18325021350	SPACER	1	
24	71428022720	PISTON W/RINGS	1	INCLUDES ITEM W/*
26*	71425022502	RING SET, PISTON	1	
32	11425022302	PIN, PISTON D=19	1	
33	22252000190	CIRCLIP 19	2	
34	71425023703	ROD ASSY, CONNECTING	1	INCLUDES ITEMS W/#
37#	11425023200	BOLT, ROD	2	
38#	11425023220	NUT, ROD BOLT	2	
39#	11425023250	WASHER	2	
40#	22312030080	PARREL PIN 3X8	2	
41#	71425023600	BEARING, CRANKPIN	1	
43	71428022620	PISTON W/RING OS=.25	1	INCLUDES ITEM W/+
45+	71425022542	RING SET O.S=0.25	1	
49	71428022580	PISTON W/RING OS=0.50	1	INCLUDES ITEM W/%
51%	71425022550	RING SET O.S=0.50	1	
55	71425023610	BEARING, PIN (U.S=0.25)	1	
57	71425023620	BEARING, PIN (U.S=0.50)	1	

YANMAR L-40ADRM ENGINE —LUB. OIL PUMP AND GOVERNOR ASSY.

LUB. OIL PUMP AND GOVERNOR ASSY.



① = *SEE PG. 26 AND 27 FOR P/N*

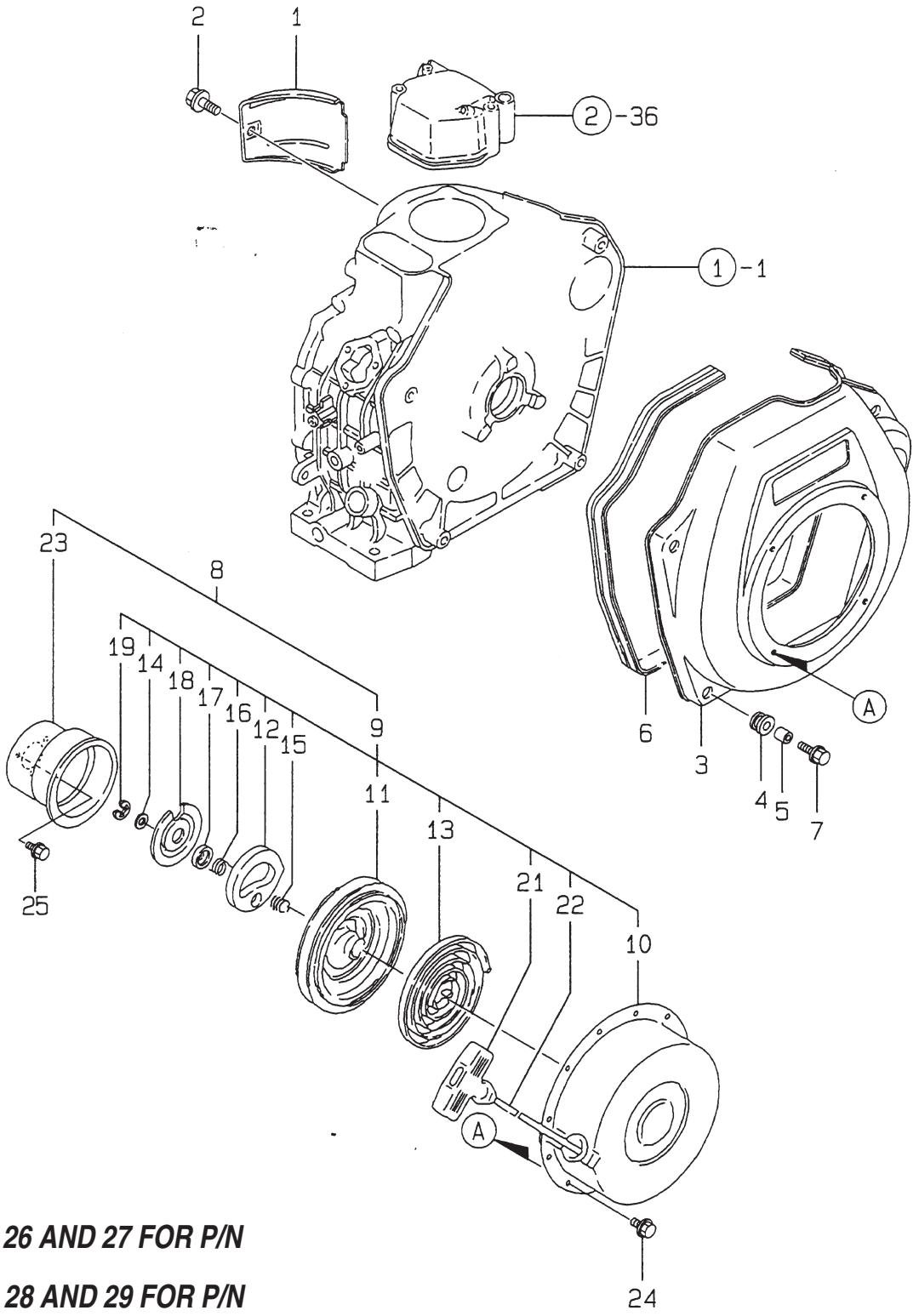
YANMAR L-40ADRM ENGINE —LUB. OIL PUMP AND GOVERNOR ASSY.

LUB. OIL PUMP AND GOVERNOR ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	11425032010	PUMP ASSY, LUB. OIL	1	
6	11425032070	COVER, LUB. OIL PUMP	1	
7#	10333832570	O-RING	1	
8	22312030160	PARREL PIN 3X16	1	
9	26476060142	BOLT M6X14, TAPPING	3	
10	11425035070	STRAINER, LUB. OIL	1	
11#	24341000224	O-RING 1A S-22.4	1	
12	26106060162	BOLT M6X16 PLATED	1	
13	71425061500	LEVER ASSY, GOVERNOR	1	INCLS. ALL ITEMS W/*
18*	22322030200	TAPER PIN 3X20	1	
19*	22322030200	TAPER PIN 3X20	1	
20	71477061700	GOVERNOR ASSY	1	
25	11427061520	NEEDLE BEARING FJ810	2	
26	11477061600	SEAL, OIL	1	
27	11477061610	WASHER, THRUST	1	
28	11425066050	HANDLE, REGULATOR	1	
30	11425266252	SPRING, RETURN	1	
31	11426866500	BRACKET ASSY, REGULATOR	1	INCLS. ALL ITEMS W/+
33+	11425066440	BOLT, ADJUSTING	1	
34+	10210067080	BOLT ,ADJUSTING	1	
35	26106060202	BOLT M6X20 PLATED	1	
36	26117040088	BOLT 4* 8	1	
37	11477061190	WASHER	1	
38	26476060142	BOLT M6X14, TAPPING	1	
39+	26757060002	NUT 6	2	
40	11477066010	SPRING, REGULATOR	1	
41	11425066200	SPRING, RETURN	1	
42	11425066550	TORQUE SPRING ASSY	1	
47	26696100002	NUT M10	1	
#	71425092602	GASKET SET	1	COMPONENTS ALSO FOUND ON PG. 27, 29 & 38

YANMAR L-40ADRM ENGINE —COOLING AND STARTING ASSY.

COOLING AND STARTING ASSY.



① = *SEE PG. 26 AND 27 FOR P/N*

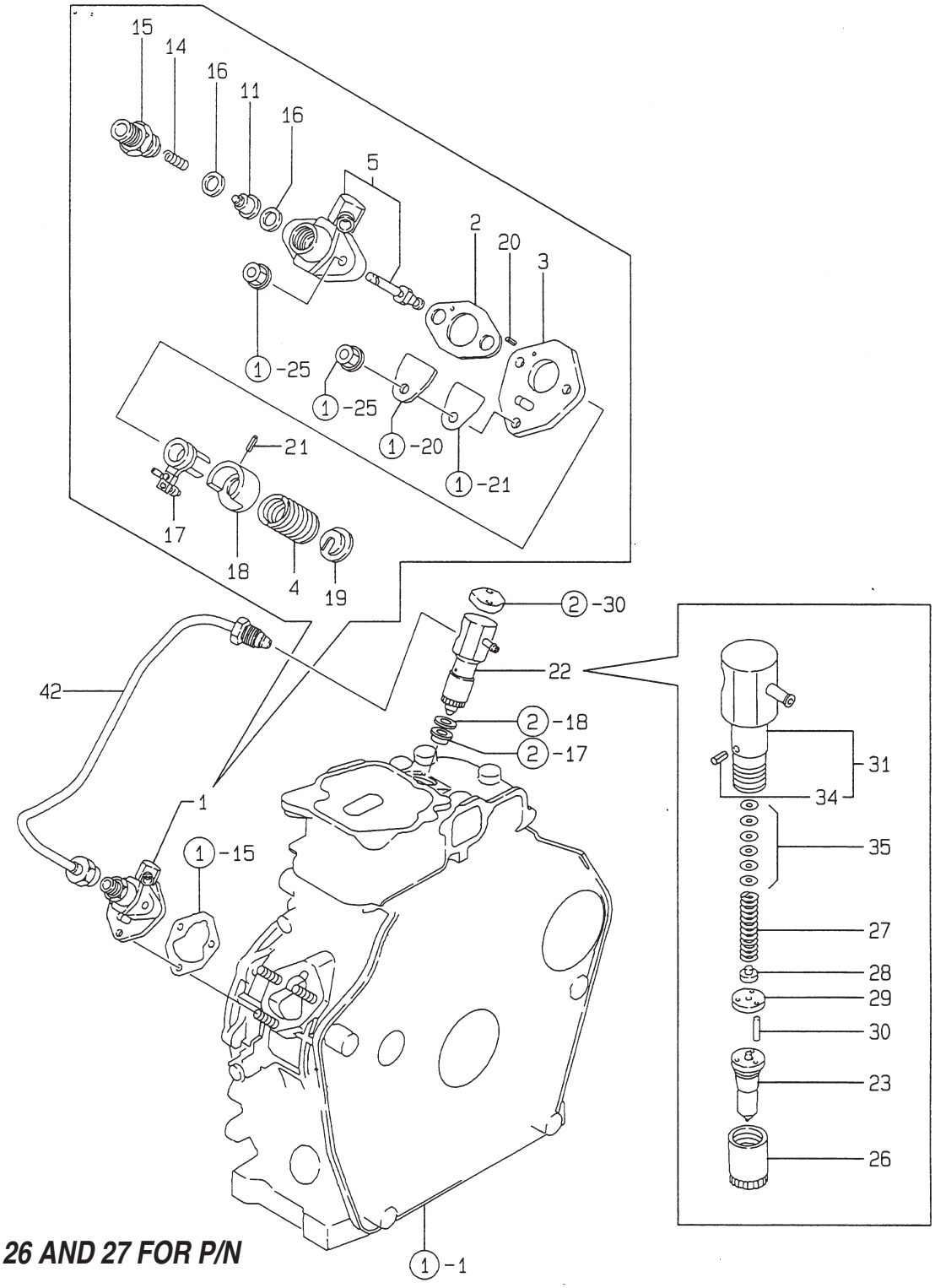
② = *SEE PG. 28 AND 29 FOR P/N*

YANMAR L-40ADRM ENGINE —COOLING AND STARTING ASSY.

COOLING AND STARTING ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	11425045211	COVER, CYLINDER	1	
2	26476060142	BOLT M6X14, TAPPING	1	
3	11427445100	CASE, COOLING FAN	1	
4	11425045301	RUBBER, CUSHION	4	
5	11425045310	COLLAR	4	
6	11465045330	SEAL, FAN CASE	1	REPLACES 11425045330
7	11437045350	BOLT, FAN CASE	4	
8	71426076821	RECOIL STARTER (D) ASSY	1	INCLUDES ITEMS W/* REPLACES 11426076050
9*		RECOIL STARTER (D)	1	NOT SERVICED SEPARATELY
10*	11426076520	CASE(D) W/NO LABEL	1	
11*	16026076520	REEL, RECOIL	1	
12*	16026076530	RATCHET	1	
13*	16026076540	SPRING, SPIRAL	1	
14*	16026076550	WASHER, THRUST	1	
15*	16026076560	SPRING, FRICTION	1	
16*	16029076570	SPRING, RETURN	1	
17*	16026076580	COVER, SPRING	1	
18*	16026076590	PLATE, FRICTION	1	
19*	16026076600	CIRCLIP (E)	1	
21*	16026076620	KNOB, STARTER	1	
22*	16026076630	ROPE, STARTER	1	
23*	11425076590	PULLEY, STARTER	1	
24	26106060082	BOLT M6X8 PLATED	4	
25	26106060122	BOLT M6X12 PLATED	3	

FUEL INJECTION PUMP ASSY.



① = *SEE PG. 26 AND 27 FOR P/N*

② = *SEE PG. 28 AND 29 FOR P/N*

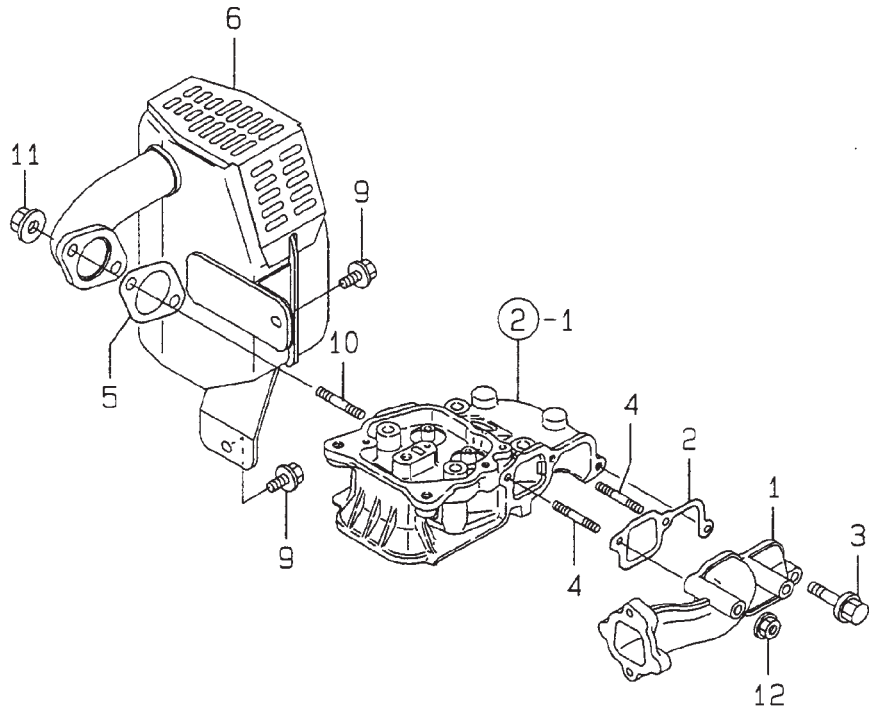
YANMAR L-40ADRM ENGINE —FUEL INJECTION PUMP ASSY.

FUEL INJECTION PUMP ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	71425051710	PUMP ASSY, F. INJECT	1	INCLUDES ITEMS W/* REPLACES 71415051701
2*	10554651020	GASKET	1	
3*	11425051080	PLATE	1	
4*	11425051160	SPRING	1	
5*	11425051200	BODY, F.I. PUMP	1	
11*	11425051300	VALVE ASSY, DELIVERY	1	
14*	10554651330	SPRING, DELIV. VALVE	1	
15*	11425051340	HOLDER, F.I.P. DELIV.	1	
16*	12455051350	GASKET, DELIVERY	2	
17*	11425051600	LEVER ASSY, CONTROL	1	
18*	11425051640	SEAT (A), SPRING	1	
19*	11425051650	SEAT (B), SPRING	1	
20*	22351020006	SPRING PIN 2X6	2	
21*	22351030008	SPRING PIN 3X8	1	
22	71425053101	VALVE ASSY, F. INJECT	1	INCLUDES ITEMS W/#
23#	11425053001	NOZZLE ASSY, F. INJECT	1	
26#	11425053080	NUT, NOZZLE CASE	1	
27#	11425053120	SPRING, NOZZLE	1	
28#	11425053130	SEAT, NOZZLE SPRING	1	
29#	11425053140	PLATE, STOP	1	
30#	11425053210	PIN	2	
31#	11425053300	HOLDER ASSY, NOZZLE	1	INCLUDES ITEM W/+
34#+	11425053331	PIN, SPRING	1	
35#	11425053400	SHIM PACK	1	
42	11425059800	PIPE, FUEL INJECTION	1	

YANMAR L-40ADRM ENGINE —AIR CLEANER AND MUFFLER ASSY.

AIR CLEANER AND MUFFLER ASSY.



② = *SEE PG. 28 AND 29 FOR P/N*

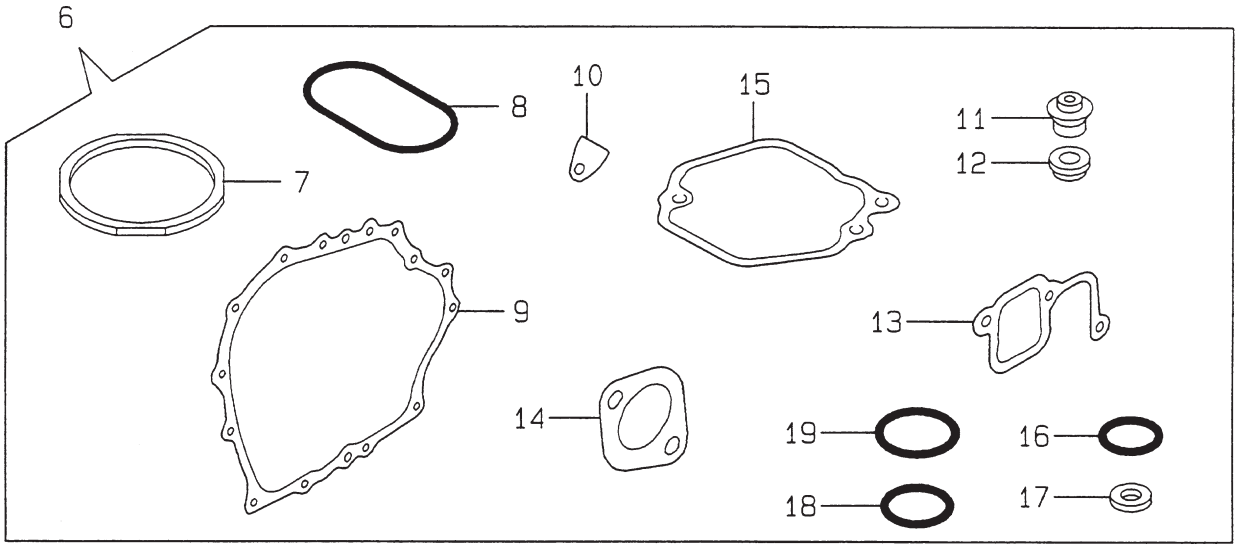
YANMAR L-40ADRM ENGINE —AIR CLEANER AND MUFFLER ASSY.

AIR CLEANER AND MUFFLER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	11428412010	PIPE, ARI INTAKE	1	
2#	11425012201	GASKET, AIR INTAKE	1	
3	26106060252	BOLT M6X25 PLATED	1	
4	26226060552	STUD M6X55 PLATED	2	
5#	11425013201	GASKET (NON-ASB.)	1	
6	11428413500	MUFFLER ASSY, DRM	1	
9	26106060122	BOLT M6X12 PLATED	2	
10	26216080182	STUD M8X18 PLATED	2	
11	26366080002	NUT M8	2	
12	26366060002	NUT M6	2	
#	71425092602	GASKET SET	1	..... COMPONENTS ALSO ON PGS. 27, 29, 33

YANMAR L-40ADRM ENGINE — LABEL AND GASKET SET ASSY.

LABEL AND GASKET SET ASSY.

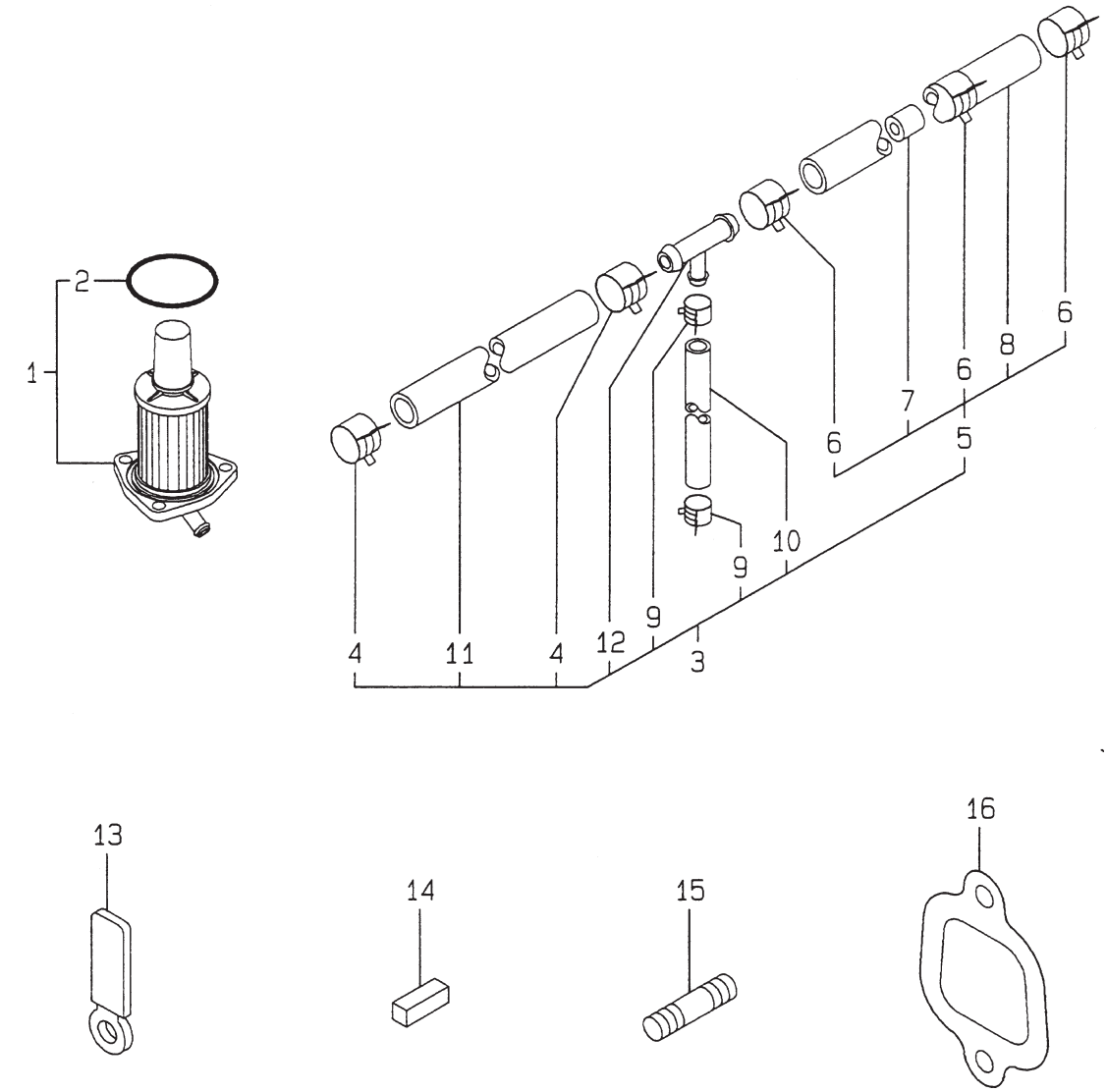


YANMAR L-40ADRM ENGINE — LABEL AND GASKET SET ASSY.

LABEL AND GASKET SET ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
3	11426107350	LABEL	1	
4	11425007111	LABEL, YANMAR	1	
6	71425092602	GASKET SET	1	INCLUDES ITEMS W/*COMPONENTS SHOWN ON PGS. 27, 29, 33 AND 38
7*	11425001340	GASKET, CYL. HEAD	1	
8*	11425001380	O-RING	1	
9*	11425001412	GASKET, CRANKCASE	1	
10*	11425001841	GASKET	1	
11*	11425011340	SEAL, VALVE STEM	2	
12*	11425011460	GASKET, NOZZLE	1	
13*	11425012201	GASKET, AIR INTAKE	1	
14*	11425013201	GASKET (NON-ASB.)	1	
15*	11425011311	GASKET, BONNET	1	
16*	24311000180	O-RING 1A P-18.0	2	
17*	22190160002	SEAL WASHER 16S	2	
18*	24341000224	O-RING 1A S-22.4	1	
19*	10333832570	O-RING	1	

LOOSE PARTS ASSY.



LOOSE PARTS ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	18325455120	STRAINER ASSY, FUEL	1	INCLUDES ITEM W/*
2*	24341000450	O-RING 1A S-45.0	1	
3	11428459100	PIPE ASSY, FUEL OIL	1	INCLUDES ITEMS W/#
4#	10699044660	BAND, HOSE	2	
5#	18325059010	PIPE ASSY, FUEL OIL	1	INCLUDES ITEMS W/+
6#+	1069904460	BAND, HOSE	3	
7#+	18325059040	PIECE	1	
8#+	18325059050	PIPE, FUEL OIL	1	
9#	12472259050	CLAMP 9	2	
10#	11465459070	PIPE, FUEL RETURN	1	
11#	18366659330	PIPE, FUEL DRAIN	1	
12#	11428459710	JOINT	1	
13	16071078710	CLAMP, WIRE	1	
14	22512040120	KEY 4X12	1	
15	26226100402	STUD M10X20 PLATED	2	
16	11428412200	GASKET, AIR INTAKE	1	

PAYMENT TERMS

Terms of payment for parts are net 30 days.

FREIGHT POLICY

All parts orders will be shipped collect or prepaid with the charges added to the invoice. All shipments are F.O.B. point of origin. Multiquip's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

MINIMUM ORDER

The minimum charge for orders from Multiquip is $15.00 net. Customers will be asked for instructions regarding handling of orders not meeting this requirement.

RETURNED GOODS POLICY

Return shipments will be accepted and credit will be allowed, subject to the following provisions:

1. A Returned Material Authorization must be approved by Multiquip prior to shipment.
2. To obtain a Return Material Authorization, a list must be provided to Multiquip Parts Sales that defines item numbers, quantities, and descriptions of the items to be returned.
    a. The parts numbers and descriptions must match the current parts price list.
    b. The list must be typed or computer generated.
    c. The list must state the reason(s) for the return.
    d. The list must reference the sales order(s) or invoice(s) under which the items were originally purchased.
    e. The list must include the name and phone number of the person requesting the RMA.
3. A copy of the Return Material Authorization must accompany the return shipment.
4. Freight is at the sender's expense. All parts must be returned freight prepaid to Multiquip's designated receiving point.
5. Parts must be in new and resalable condition, in the original Multiquip package (if any), and with Multiquip part numbers clearly marked.
6. The following items are not returnable:
    a. Obsolete parts. (If an item is in the price book and shows as being replaced by another item, it is obsolete.)
    b. Any parts with a limited shelf life (such as gaskets, seals, "O" rings, and other rubber parts) that were purchased more than six months prior to the return date.
    c. Any line item with an extended dealer net price of less than $5.00.
    d. Special order items.
    e. Electrical components.
    f. Paint, chemicals, and lubricants.
    g. Decals and paper products.
    h. Items purchased in kits.
7. The sender will be notified of any material received that is not acceptable.
8. Such material will be held for five working days from notification, pending instructions. If a reply is not received within five days, the material will be returned to the sender at his expense.
9. Credit on returned parts will be issued at dealer net price at time of the original purchase, less a 15% restocking charge.
10. In cases where an item is accepted, for which the original purchase document can not be determined, the price will be based on the list price that was effective twelve months prior to the RMA date.
11. Credit issued will be applied to future purchases only.

PRICING AND REBATES

Prices are subject to change without prior notice. Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price. Rebates for price declines and added charges for price increases will not be made for stock on hand at the time of any price change.

Multiquip reserves the right to quote and sell direct to Government agencies, and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

SPECIAL EXPEDITING SERVICE

A $35.00 surcharge will be added to the invoice for special handling including bus shipments, insured parcel post or in cases where Multiquip must personally deliver the parts to the carrier.

LIMITATIONS OF SELLER'S LIABILITY

Multiquip shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed, and in no event shall Multiquip be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES

No warranties, express or implied, are made in connection with the sale of parts or trade accessories nor as to any engine not manufactured by Multiquip. Such warranties made in connection with the sale of new, complete units are made exclusively by a statement of warranty packaged with such units, and Multiquip neither assumes nor authorizes any person to assume for it any other obligation or liability whatever in connection with the sale of its products. Apart from such written statement of warranty, there are no warranties, express, implied or statutory, which extend beyond the description of the products on the face hereof.

NOTE PAGE

OPERATION AND PARTS MANUAL

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER *ON-HAND* WHEN CALLING

UNITED STATES

Multiquip Corporate Office
18910 Wilmington Ave. Tel. (800) 421-1244
Carson, CA 90746 Fax (800) 537-3927
Contact: mq@multiquip.com

Mayco Parts
800-306-2926 Fax: 800-672-7877
310-537-3700 Fax: 310-637-3284

Service Department
800-421-1244 Fax: 310-537-4259
310-537-3700

MQ Parts Department
800-427-1244 Fax: 800-672-7877
310-537-3700 Fax: 310-637-3284

Warranty Department
800-421-1244, Ext. 279 Fax: 310-537-1173
310-537-3700, Ext. 279

Technial Assistance
800-478-1244 Fax: 310-631-5032

MEXICO

MQ Cipsa
Carr. Fed. Mexico-Puebla KM 126.5 Tel: (52) 222-225-9900
Momoxpan, Cholula, Puebla 72760 Mexico Fax: (52) 222-285-0420
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Barra de Tijuca - Rio de Janeiro Fax: 011-55-21-3433-9055
Contact: cnavarro@multiquip.com.br, srentes@multiquip.com.br

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This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

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